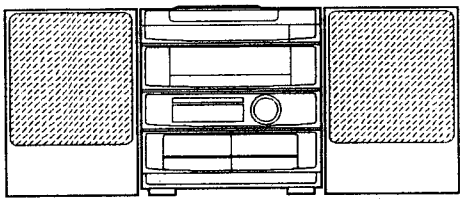
aiwa

aiwa SERVICE

Z-VR660

SERVICE MANUAL



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 6ZM-3 PR1NM
- BASIC CD MECHANISM : 6ZG-1 SDFNM
- TYPE : U

SYSTEM	CD – CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z-VR660	CX-ZVR660	SX-ZR660 SX-C550 SX-R240	RC - 7AS02

S/M Code No. 09-976-203-0FP

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output	**Front** 50 watts per channel, Min. RMS at 6 ohms, from 50 Hz to 20 kHz, with no more than 1% Total Harmonic Distortion **Rear (Surround)** 25 watts per channel, Min. RMS at 16 ohms, from 1 kHz,with no more than 1% Total Harmonic Distortion **Center** 50 watts, Min. RMS at 8 ohms, from 1 kHz,with no more than 1% Total Harmonic Distortion
Total harmonic distortion	0.1 % (25 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX : 150 mV (adjustable) PHONO : 240 mV (47 kohms) MIC 1, MIC 2 : 1 mV (20 kohms)
Outputs	CD DIGITAL OUT (OPTICAL) SUPER WOOFER : 2.2 V SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 16 ohms or more CENTER SPEAKERS : accept speakers of 8 ohms or more PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	Normal tape : 50 Hz –15000 Hz
Signal-to-noise ratio	45 dB (Normal tape peak level, above 400 Hz)
Recording system	AC bias
Heads	Deck 1 : Playback head x1 Deck 2 : Recording/playback head x 1 erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.03 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–ZR660>

Cabinet type	3 way, bass reflex
Speakers	Woofer : 220 mm cone type Tweeter : 60 mm cone type Super tweeter : 20 mm ceramic type
Impedance	6 ohms
Output sound pressure level	90 dB/W/m
Dimensions (W x H x D)	260 x 444 x 245 mm ($10^1/_4$ X $17^1/_2$ X $9^5/_8$) mm
Weight	4.4 kg (9 lb. 11 oz.)

<General>

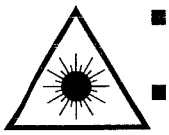
Power requirements	120 V AC, 60 Hz
Power consumption	120 W
Dimensions of main unit (W x H x D)	360 x 394.5 x 380.5 mm ($14^1/_4$ X $15^5/_8$ X 15) mm
Weight of main unit	10.5 kg (23 lb. 2 oz.)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

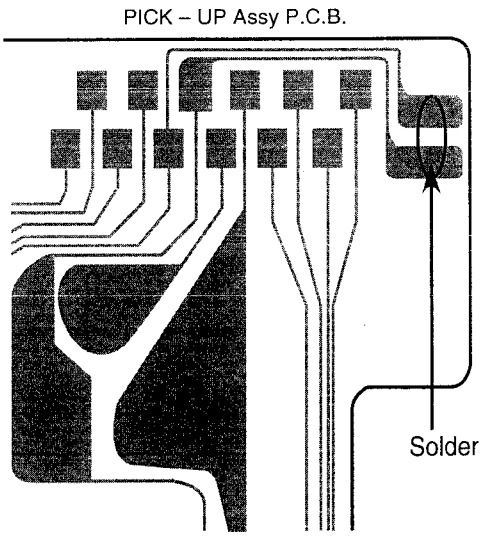
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	87-MA3-602-010		C-IC,LC866560W-5E53
	87-070-083-010		IC,GP1U281X
	87-017-915-080		C-IC,BU4094BCF
	87-A20-501-040		C-IC,BA7762FS
	87-A20-083-010		IC,BA3835S
	87-A20-450-040		C-IC,BH3864F
	87-A20-456-040		C-IC,BH3810FS
	87-017-888-080		C-IC,NJM4558MD
	86-NFZ-655-010		IC,LC72131D(Z)
	87-A20-438-010		IC,LA1837
	87-A20-453-010		C-IC,NJW1102B
	87-A20-452-040		C-IC,TC9260FS
	87-A20-613-040		C-IC,BU9262AFS
TRANSISTOR			
	87-026-263-080		C-TR,RN1410
	89-213-702-010		TR,2SB1370E
	87-A30-106-070		C-TR,CMBT5551
	89-112-965-080		TR,2SA1296GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-026-235-080		C-TR,DTC114EK
	87-A30-085-070		C-TR,CSA1362GR
	87-A30-083-080		TR,CSD1489B
	87-A30-075-080		C-TR,2SA1235F
	87-A30-084-080		TR,CSB1058B
	87-026-213-080		C-TR,DTC114YK
	87-026-609-080		TR,KTA1266GR
	87-A30-086-070		C-TR,CSD1306E
	87-A30-111-080		TR,C2N5401
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-089-010		FET,2SK2723
	87-026-230-080		C-TR,DTA114YK
	87-A30-087-080		C-FET,2SK2158
	87-026-227-080		C-TR,DTA114EK
	89-327-143-080		C-TR,2SC2714(O)
	87-A30-073-080		C-TR,RT1N 141C
	87-026-232-080		C-TR,DTA144WK
DIODE			
	87-A40-270-080		C-DIODE,MC2838
	87-A40-246-080		DIODE,1N4148T-72
	87-A40-115-060		DIODE,RS603M
	87-A40-269-080		C-DIODE,MC2836
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-344-080		ZENER,MTZJ6.2C
	87-A40-341-080		ZENER,MTZJ36A
	87-A40-345-080		ZENER,MTZJ10C
	87-070-178-090		DIODE,1N5402-BD54
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-003-080		ZENER,MTZJ4.3A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-017-437-080		DIODE,1N4148M
	87-A40-004-080		ZENER,MTZJ16A
	87-A40-116-060		DIODE,RS403L-B-D-51
	87-A40-186-080		ZENER,UZ5.1BSC
	87-017-481-080		ZENER,UZ-5.6BSB
MAIN C.B			
C101	87-010-917-090		CAP,E 3300-50 M SMG
C102	87-010-917-090		CAP,E 3300-50 M SMG
C103	87-016-658-090		CAP,E 4700-35 M SMG
C104	87-016-658-090		CAP,E 4700-35 M SMG
C105	87-012-368-080		C-CAP,S 0.1-50 Z F
C106	87-012-368-080		C-CAP,S 0.1-50 Z F
C107	87-012-368-080		C-CAP,S 0.1-50 Z F
C108	87-012-368-080		C-CAP,S 0.1-50 Z F
C109	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C110	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C111	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C113	87-010-384-080		CAP,E 100-25 M SME
C116	87-010-384-080		CAP,E 100-25 M SME
C117	87-010-430-080		CAP,E 100-63 M SME
C118	87-010-263-080		CAP,E 100-10 SME
C119	87-010-260-080		CAP,E 47-25 SME
C120	87-010-403-080		CAP,E 3.3-50 M SME
C121	87-012-140-080		C-CAP,S 470P-50 J CH
C122	87-010-263-080		CAP,E 100-10 SME
C123	87-010-247-080		CAP,E 100-50 M SME
C124	87-010-112-080		CAP,E 100-16 M SME
C125	87-010-235-080		CAP,E 470-16 SME
C129	87-010-393-080		CAP,E 100-35 M SME
C201	87-010-401-080		CAP,E 1-50 M SME
C202	87-010-401-080		CAP,E 1-50 M SME
C205	87-010-183-080		C-CAP,S 2700P-50 K B
C206	87-010-183-080		C-CAP,S 2700P-50 K B
C207	87-010-404-080		CAP,E 4.7-50 M SME
C208	87-010-404-080		CAP,E 4.7-50 M SME
C209	87-010-404-080		CAP,E 4.7-50 M SME
C210	87-010-404-080		CAP,E 4.7-50 M SME
C211	87-010-186-080		C-CAP,S 4700P-50 K B
C212	87-010-186-080		C-CAP,S 4700P-50 K B
C213	87-010-260-080		CAP,E 47-25 SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C219	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C220	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C221	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C222	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C223	87-010-194-080		C-CAP,S 0.047-25 Z F
C225	87-010-322-080		C-CAP,S 100P-50 J CH
C226	87-010-322-080		C-CAP,S 100P-50 J CH
C242	87-010-406-040		CAP,E 22-50 M SME
C243	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C244	87-010-406-040		CAP,E 22-50 M SME
C301	87-010-318-080		C-CAP,S 47P-50 J CH
C302	87-010-318-080		C-CAP,S 47P-50 J CH
C303	87-012-145-080		C-CAP,S 270P-50 J CH
C304	87-012-145-080		C-CAP,S 270P-50 J CH
C305	87-012-145-080		C-CAP,S 270P-50 J CH
C306	87-012-145-080		C-CAP,S 270P-50 J CH
C307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C311	87-010-198-080		C-CAP,S 0.022-25 K B
C312	87-010-198-080		C-CAP,S 0.022-25 K B
C313	87-010-182-080		C-CAP,S 2200P-50 K B
C314	87-010-182-080		C-CAP,S 2200P-50 K B
C315	87-010-182-080		C-CAP,S 2200P-50 K B
C316	87-010-182-080		C-CAP,S 2200P-50 K B
C321	87-016-492-080		C-CAP,S 0.33-16 Z F
C322	87-016-492-080		C-CAP,S 0.33-16 Z F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 M SME
C327	87-010-404-080		CAP,E 4.7-50 M SME
C328	87-010-404-080		CAP,E 4.7-50 M SME
C332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C335	87-010-401-080		CAP,E 1-50 M SME
C336	87-010-401-080		CAP,E 1-50 M SME
C337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C351	87-012-140-080		C-CAP,S 470P-50 J CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C352	87-012-140-080		C-CAP,S 470P-50 J CH
C354	87-010-175-080		C-CAP,S 560P-50 J SL
C356	87-010-260-080		CAP,E 47-25 SME
C357	87-010-197-080		C-CAP,S 0.01-25 K B
C358	87-010-183-080		C-CAP,S 2700P-50 K B
C359	87-010-183-080		C-CAP,S 2700P-50 K B
C360	87-010-183-080		C-CAP,S 2700P-50 K B
C370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C373	87-010-993-080		C-CAP,S 0.056-25 K B MK212
C374	87-010-993-080		C-CAP,S 0.056-25 K B MK212
C378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C379	87-010-382-080		CAP,E 22-25 M SME
C380	87-010-382-080		CAP,E 22-25 M SME
C388	87-010-154-080		C-CAP,S 10P-50 D CH
C421	87-010-401-080		CAP,E 1-50 M SME
C422	87-010-401-080		CAP,E 1-50 M SME
C516	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C605	87-010-180-080		C-CAP,S 1500P-50 K B
C606	87-010-180-080		C-CAP,S 1500P-50 K B
C611	87-016-081-080		C-CAP,S 0.1-16 KR
C615	87-010-183-080		C-CAP,S 2700P-50 K B
C619	87-010-263-080		CAP,E 100-10 SME
C620	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-263-080		CAP,E 100-10 SME
C622	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C623	87-010-194-080		C-CAP,S 0.047-25 Z F
C629	87-012-368-080		C-CAP,S 0.1-50 ZF
C630	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C632	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C636	87-010-322-080		C-CAP,S 100P-50 J CH
C637	87-010-322-080		C-CAP,S 100P-50 J CH
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 M SME
C703	87-010-197-080		C-CAP,S 0.01-25 K B
C704	87-010-197-080		C-CAP,S 0.01-25 K B
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C713	87-010-197-080		C-CAP,S 0.01-25 K B
C714	87-010-197-080		C-CAP,S 0.01-25 K B
C721	87-010-312-080		C-CAP,S 15P-50 J CH
C722	87-010-312-080		C-CAP,S 15P-50 J CH
C723	87-010-178-080		C-CAP,S 1000P-50 K B
C725	87-010-178-080		C-CAP,S 1000P-50 K B
C727	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C728	87-010-248-080		CAP,E 220-10 SME
C755	87-010-197-080		C-CAP,S 0.01-25 K B
C756	87-010-197-080		C-CAP,S 0.01-25 K B
C757	87-010-318-080		C-CAP,S 47P-50 J CH
C758	87-010-149-080		C-CAP,S 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C762	87-010-197-080		C-CAP,S 0.01-25 K B
C763	87-010-194-080		C-CAP,S 0.047-25 Z F
C765	87-010-197-080		C-CAP,S 0.01-25 K B
C766	87-010-197-080		C-CAP,S 0.01-25 K B
C767	87-010-405-080		CAP,E 10-50 M SME
C768	87-010-197-080		C-CAP,S 0.01-25 K B
C769	87-010-408-080		CAP,E 47-50 SME
C770	87-015-821-080		C-CAP, 0.047-50 Z F GR
C771	87-010-407-080		CAP,E 33-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 Z F
C773	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-404-080		CAP,E 4.7-50 M SME
C776	87-010-197-080		C-CAP,S 0.01-25 K B
C777	87-010-400-080		CAP,E 0.47-50 M SME
C778	87-010-401-080		CAP,E 1-50 M SME
C779	87-010-401-080		CAP,E 1-50 M SME
C780	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C781	87-010-405-080		CAP,E 10-50 M SME
C782	87-010-405-080		CAP,E 10-50 M SME
C783	87-015-819-080		C-CAP,0.01-50 K B
C784	87-010-197-080		C-CAP,S 0.01-25 K B
C785	87-010-400-080		CAP,E 0.47-50 M SME
C786	87-010-400-080		CAP,E 0.47-50 M SME
C787	87-010-184-080		C-CAP,S 3300P-50 K B
C788	87-010-184-080		C-CAP,S 3300P-50 K B
C789	87-010-179-080		C-CAP,S 1200P-50 K B
C790	87-010-179-080		C-CAP,S 1200P-50 K B
C791	87-010-405-080		CAP,E 10-50 M SME
C793	87-010-178-080		C-CAP,S 1000P-50 K B
C794	87-010-406-080		CAP,E 22-50 M SME
C795	87-010-596-080		C-CAP,S 0.047-16 K B
C796	87-010-403-080		CAP,E 3.3-50 M SME
C797	87-010-182-080		C-CAP,S 2200P-50 K B
C798	87-010-182-080		C-CAP,S 2200P-50 K B
C799	87-010-194-080		C-CAP,S 0.047-25 Z F
C812	87-010-197-080		C-CAP,S 0.01-25 K B
C813	87-010-197-080		C-CAP,S 0.01-25 K B
C814	87-010-197-080		C-CAP,S 0.01-25 K B
C815	87-010-197-080		C-CAP,S 0.01-25 K B
C816	87-010-197-080		C-CAP,S 0.01-25 K B
C819	87-010-197-080		C-CAP,S 0.01-25 K B
C820	87-010-408-080		CAP,E 47-50 SME
C821	87-010-197-080		C-CAP,S 0.01-25 K B
C822	87-010-197-080		C-CAP,S 0.01-25 K B
C823	87-010-197-080		C-CAP,S 0.01-25 K B
C828	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C961	87-010-152-080		C-CAP,S 8P-50 D CH
CF801	87-008-261-010		FLTR,CFSFE10.7MA5
CF802	87-008-261-010		FLTR,CFSFE10.7MA5
FFE801	A8-7ZA-290-030		7ZA-2 FEUNM
J252	87-A60-031-010		JACK,6.3 BLK ST W/S
J253	87-A60-399-010		JACK,PIN 1P BLK HSP-241VBL
J254	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-099-625-010		JACK,PIN 4P BLK W/O SW
J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
L201	87-003-383-010		COIL,1UH K
L202	87-003-383-010		COIL,1UH K
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85KHZ BIAS
L601	87-003-231-080		C-COIL,2125 1UHK ML
L770	87-005-847-080		COIL,2.2UH K CECS
L771	87-A50-165-010		COIL,FM DET-N(TOK)
L772	87-A90-245-010		FLTR,CFAZH-450 (TOK)
L832	87-005-847-080		COIL,2.2UH K CECS
L981	87-NF4-650-010		COIL,AM PACK4N(TOK)
⚠ PR201	87-026-691-080		FUSE,10A 125V 251
⚠ PR202	87-026-691-080		FUSE,10A 125V 251
R229	87-A00-257-080		RES,M/F 0.15-1W J
R230	87-A00-257-080		RES,M/F 0.15-1W J
R664	83-XM1-617-080		C-COIL,BK2125 HM601
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5
SFR301	87-024-438-080		SFR,220K H RH063MC
SFR302	87-024-438-080		SFR,220K H RH063MC
SFR303	87-024-438-080		SFR,220K H RH063MC
SFR304	87-024-438-080		SFR,220K H RH063MC
SFR351	87-024-436-080		SFR,47K H RH063MC
SFR352	87-024-436-080		SFR,47K H RH063MC
W1	85-NF5-628-010		F-CABLE,7P-2.5
W602	88-906-271-110		FF-CABLE, 6P 1.25
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

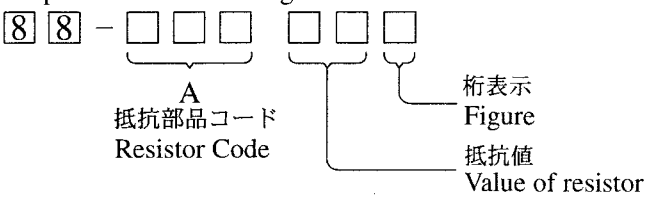
C101	87-010-198-080		C-CAP,S 0.022-25 K B
C102	87-010-198-080		C-CAP,S 0.022-25 K B
C103	87-010-197-080		C-CAP,S 0.01-25 K B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C104	87-010-320-080		C-CAP,S 68P-50 J CH
C105	87-010-316-080		C-CAP,S 33P-50 J CH
C106	87-010-178-080		C-CAP,S 1000P-50 K B
C107	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C108	87-010-405-040		CAP,E 10-50 M SME
C109	87-010-401-040		CAP,E 1-50 M SME
C110	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C111	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C112	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C113	87-A10-189-040		CAP,E 220-10 M
C114	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C115	87-010-178-080		C-CAP,S 1000P-50 K B
C116	87-010-494-040		CAP,E 1-50 5L SRE
C117	87-010-263-080		CAP,E 100-10 SME
C118	87-010-194-080		C-CAP,S 0.047-50 K B
C119	87-010-408-080		CAP,E 47-50 SME
C120	87-010-404-080		CAP,E 4.7-50 M SME
C121	87-010-404-080		CAP,E 4.7-50 M SME
C122	87-010-194-080		C-CAP,S 0.047-50 K B
C123	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C124	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C125	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C126	87-010-312-080		C-CAP,S 15P-50 J CH
C127	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
C201	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C381	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C382	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C383	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C384	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C385	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C386	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C387	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C403	87-010-596-080		C-CAP, S 0.047-16 KR
C404	87-010-596-080		C-CAP, S 0.047-16 KR
C405	87-010-401-040		CAP,E 1-50 M SME
C406	87-010-401-040		CAP,E 1-50 M SME
C407	87-010-184-080		C-CAP,S 3300P-50 K B
C408	87-010-184-080		C-CAP,S 3300P-50 K B
C409	87-010-592-080		C-CAP,S 0.022-16 K R GRM
C410	87-010-592-080		C-CAP,S 0.022-16 K R GRM
C411	87-A10-201-080		C-CAP,S 0.33-16 KB
C412	87-A10-201-080		C-CAP,S 0.33-16 KB
C413	87-A10-264-080		C-CAP,S 0.1-16 Z F
C414	87-010-374-040		CAP,E 47-10 SME
C415	87-010-374-040		CAP,E 47-10 SME
C416	87-A10-264-080		C-CAP,S 0.1-16 Z F
C417	87-016-081-080		C-CAP,S 0.1-16 K R
C418	87-010-405-040		CAP,E 10-50 M SME
C601	87-010-405-040		CAP,E 10-50 M SME
C602	87-010-186-080		C-CAP,S 4700P-50 K B
C603	87-010-498-040		CAP,E 10-16 M 5L SRE
C604	87-010-406-040		CAP,E 22-50 M SME
C607	87-010-321-080		C-CAP,S 82P-50 J CH
C608	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C609	87-010-491-040		CAP,E 0.22-50 5L SRE
C611	87-010-177-080		C-CAP,S 820P-50 J SL
C612	87-010-993-080		C-CAP,S 0.056-25 KB
C614	87-A10-189-040		CAP,E 220-10 M
FB601	87-008-372-080		FLTR,EMIBL01 RN1
FL101	87-MA5-614-110		FL,BJ542GK
LED201	87-017-785-080		LED,SEL4214S
LED202	87-017-785-080		LED,SEL4214S
LED203	87-017-785-080		LED,SEL4214S
LED204	87-017-785-080		LED,SEL4214S
LED205	87-017-785-080		LED,SEL4214S
LED206	87-017-731-080		LED,SEL1510CM2
LED207	87-017-731-080		LED,SEL1510CM2
LED208	87-017-731-080		LED,SEL1510CM2
LED209	87-017-731-080		LED,SEL1510CM2
LED210	87-017-731-080		LED,SEL1510CM2
LED211	87-017-731-080		LED,SEL1510CM2
LED212	87-017-731-080		LED,SEL1510CM2
LED213	87-017-731-080		LED,SEL1510CM2
LED214	87-017-731-080		LED,SEL1510CM2
LED215	87-017-731-080		LED,SEL1510CM2
LED216	87-017-731-080		LED,SEL1510CM2
LED217	87-017-731-080		LED,SEL1510CM2
LED218	87-017-731-080		LED,SEL1510CM2
LED251	87-017-731-080		LED,SEL1510CM2
LED221	87-017-731-080		LED,SEL1510CM2
LED222	87-017-731-080		LED,SEL1510CM2
LED223	87-017-731-080		LED,SEL1510CM2
LED224	87-017-731-080		LED,SEL1510CM2
LED225	87-017-785-080		LED,SEL4214S
LED226	87-017-785-080		LED,SEL4214S
LED227	87-017-785-080		LED,SEL4214S
LED241	87-017-785-080		LED,SEL4214S
LED242	87-017-785-080		LED,SEL4214S
LED243	87-017-785-080		LED,SEL4214S
LED244	87-017-785-080		LED,SEL4214S
LED245	87-017-785-080		LED,SEL4214S
LED246	87-017-785-080		LED,SEL4214S
LED247	87-017-785-080		LED,SEL4214S
LED248	87-017-785-080		LED,SEL4214S
LED249	87-017-785-080		LED,SEL4214S
LED250	87-017-785-080		LED,SEL4214S
S301	87-A90-164-080		SW,TACT SKQAB(N)
S302	87-A90-164-080		SW,TACT SKQAB(N)
S303	87-A90-164-080		SW,TACT SKQAB(N)
S304	87-A90-164-080		SW,TACT SKQAB(N)
S305	87-A90-164-080		SW,TACT SKQAB(N)
S306	87-A90-164-080		SW,TACT SKQAB(N)
S307	87-A90-164-080		SW,TACT SKQAB(N)
S308	87-A90-164-080		SW,TACT SKQAB(N)
S321	87-A90-164-080		SW,TACT SKQAB(N)
S322	87-A90-164-080		SW,TACT SKQAB(N)
S323	87-A90-164-080		SW,TACT SKQAB(N)
S324	87-A90-164-080		SW,TACT SKQAB(N)
S325	87-A90-164-080		SW,TACT SKQAB(N)
S328	87-A90-164-080		SW,TACT SKQAB(N)
S329	87-A90-164-080		SW,TACT SKQAB(N)
S330	87-A90-164-080		SW,TACT SKQAB(N)
S331	87-A90-164-080		SW,TACT SKQAB(N)
S332	87-A90-164-080		SW,TACT SKQAB(N)
S334	87-A90-164-080		SW,TACT SKQAB(N)
S335	87-A90-164-080		SW,TACT SKQAB(N)
S341	87-A90-164-080		SW,TACT SKQAB(N)
S342	87-A90-164-080		SW,TACT SKQAB(N)
S343	87-A90-164-080		SW,TACT SKQAB(N)
S349	87-A90-164-080		SW,TACT SKQAB(N)
S350	87-A90-164-080		SW,TACT SKQAB(N)
S351	87-A90-164-080		SW,TACT SKQAB(N)
S352	87-A90-164-080		SW,TACT SKQAB(N)
SW101	87-A90-461-010		SW,RTRY EVQVBCFK124B
X201	87-A70-070-080		VIB,CER 5.76MHZ CRHF
CD KEY C.B			
S310	87-A90-164-080		SW,TACT SKQNAB(N)
S311	87-A90-164-080		SW,TACT SKQNAB(N)
S312	87-A90-164-080		SW,TACT SKQNAB(N)
S313	87-A90-164-080		SW,TACT SKQNAB(N)
S314	87-A90-164-080		SW,TACT SKQNAB(N)
S315	87-A90-164-080		SW,TACT SKQNAB(N)
S316	87-A90-164-080		SW,TACT SKQNAB(N)
MIC C.B			
C605	87-018-209-080		CAP,TC U 0.1-50 Z F UP050
J601	87-099-659-010		JACK,6.3 0

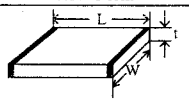
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
J602	87-099-659-010		JACK,6.3 0
AC2 C.B			
⚠ PR1	87-026-691-080		FUSE,10A 125V 251
⚠ PR2	87-026-691-080		FUSE,10A 125V 251
⚠ PR5	87-026-691-080		FUSE,10A 125V 251
⚠ PR6	87-026-691-080		FUSE,10A 125V 251
PT C.B			
⚠	87-A60-317-010		TERMINAL, 1P MSC
⚠ F101	87-035-518-010		FUSE,5A 125V T239
⚠ FC1	87-A90-505-080		FUSE CLAMP,TP00351-51
⚠ FC2	87-A90-505-080		FUSE CLAMP,TP00351-51
⚠ PT101	87-NFT-621-010		PT,7NF-T U
DECK C.B			
CON301	86-ZM3-604-019		CON ASSY,3P-PB
CON351	86-ZM3-605-019		CON ASSY,8P-RPB
CON502	87-099-753-019		CONN,11P H 9604
SFR1	87-024-581-089		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-010		SOL ASSY, 27
SOL2	82-ZM1-618-010		SOL ASSY, 27
SW1	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SW4	87-A90-248-010		SW, MICRO ESE11SH2CXQ
SW5	87-A90-248-010		SW, MICRO ESE11SH2CXQ
W1	82-ZM3-601-019		RBN-CORD,4P-75
PRO C.B			
C106	87-010-382-080		CAP,E 22-25 M SME
C109	87-016-369-080		C-CAP,S 0.033-25 KB
C112	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C201	87-010-186-080		C-CAP,S 4700P-50 K B
C202	87-010-402-080		CAP,E 2.2-50 M SME
C204	87-010-405-080		CAP,E 10-50 M SME
C205	87-A10-516-080		C-CAP,S 100P-200 J CH
C209	87-010-993-080		C-CAP,S 0.056-25 K B MK212
C210	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C211	87-010-197-080		C-CAP,S 0.01-25 K B
C213	87-010-406-080		CAP,E 22-50 M SME
C214	87-010-260-080		CAP,E 47-25 SME
C215	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C301	87-010-183-080		C-CAP,S 2700P-50 K B
C302	87-010-402-080		CAP,E 2.2-50 M SME
C304	87-010-382-080		CAP,E 22-25 M SME
C305	87-A10-516-080		C-CAP,S 100P-200 J CH
C309	87-010-993-080		C-CAP,S 0.056-25 K B MK212
C310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C311	87-010-197-080		C-CAP,S 0.01-25 K B
C313	87-010-406-080		CAP,E 22-50 M SME
C314	87-010-260-080		CAP,E 47-25 SME
C501	87-010-176-080		C-CAP,S 680P-50 J SL
C502	87-010-176-080		C-CAP,S 680P-50 J SL
C507	87-016-456-080		CAP,E 22-16 LLA
C508	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C509	87-010-112-080		CAP,E 100-16 M SME
C510	87-010-380-080		CAP,E 47-16 M SME
C512	87-016-472-080		CAP,E 22-16 K SME
C513	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C514	87-010-263-080		CAP,E 100-10 SME
C518	87-010-378-080		CAP,E 10-16 M SME
C519	87-010-404-080		CAP,E 4.7-50 M SME
C520	87-010-404-080		CAP,E 4.7-50 M SME
C521	87-010-400-080		CAP,E 0.47-50 M SME
C522	87-010-378-080		CAP,E 10-16 M SME
C523	87-010-400-080		CAP,E 0.47-50 M SME
C524	87-016-081-080		C-CAP,S 0.1-16 K R
C525	87-010-248-080		CAP,E 220-10 SME
C526	87-012-140-080		C-CAP,S 470P-50 J CH
C527	87-010-186-080		C-CAP,S 4700P-50 K B
C528	87-010-186-080		C-CAP,S 4700P-50 K B
C529	87-010-404-080		CAP,E 4.7-50 M SME
C532	87-A10-229-080		C-CAP,S 0.68-10 K W5R
C533	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C534	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C535	87-010-404-080		CAP,E 4.7-50 M SME
C536	87-010-404-080		CAP,E 4.7-50 M SME
C537	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C538	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB
C539	87-016-081-080		C-CAP,S 0.1-16 K R
C542	87-016-081-080		C-CAP,S 0.1-16 K R
C543	87-016-081-080		C-CAP,S 0.1-16 K R
C546	87-016-081-080		C-CAP,S 0.1-16 K R
C604	87-010-319-080		C-CAP,S 56P-50 J CH
C605	87-010-319-080		C-CAP,S 56P-50 J CH
C605	87-010-319-080		C-CAP,S 56P-50 J CH
C606	87-016-526-080		C-CAP,S 0.47-16 BK
C607	87-010-197-080		C-CAP,S 0.01-25 K B
C608	87-010-180-080		C-CAP,S 1500P-50 K B
C609	87-010-197-080		C-CAP,S 0.01-25 K B
C610	87-010-197-080		C-CAP,S 0.01-25 K B
C611	87-010-197-080		C-CAP,S 0.01-25 K B
C612	87-010-181-080		C-CAP,S 1800P-50 K B
C613	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C615	87-010-263-080		CAP,E 100-10 SME
C616	87-010-404-080		CAP,E 4.7-50 M SME
C617	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C618	87-010-263-080		CAP,E 100-10 SME
C619	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C621	87-010-403-080		CAP,E 3.3-50 M SME
C622	87-A10-201-080		C-CAP,S 0.33-16 K B
C701	87-010-401-080		CAP,E 1-50 M SME
C702	87-010-401-080		CAP,E 1-50 M SME
C703	87-010-263-080		CAP,E 100-10 SME
C707	87-016-526-080		C-CAP,S 0.47-16 BK
C708	87-016-526-080		C-CAP,S 0.47-16 BK
C709	87-010-380-080		CAP,E 47-16 M SME
J201	87-A60-380-010		JACK,PIN 3P O/W/R YKC2I-3
L201	87-003-383-010		COIL,1UH K
L301	87-003-383-010		COIL,1UH K
L601	87-005-212-080		COIL,220UH K EL0606
⚠ PR201	87-026-691-080		FUSE,5A 125V 251
⚠ PR301	87-026-691-080		FUSE,5A 125V 251
R215	87-A00-257-080		RES,M/F 0.15-1W J
R524	87-022-365-080		C-RES,S 100K-1/10W F

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

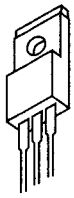
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード Resistor Code : A
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

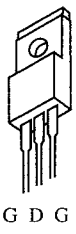
2SA1296GR
KTA1266GR
KTC3198GR

CSD1489B
CSB1058B

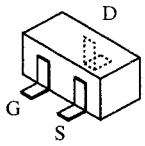
C2N5401



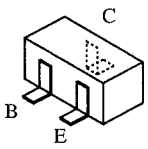
2SB1370
FN1016
FP1016



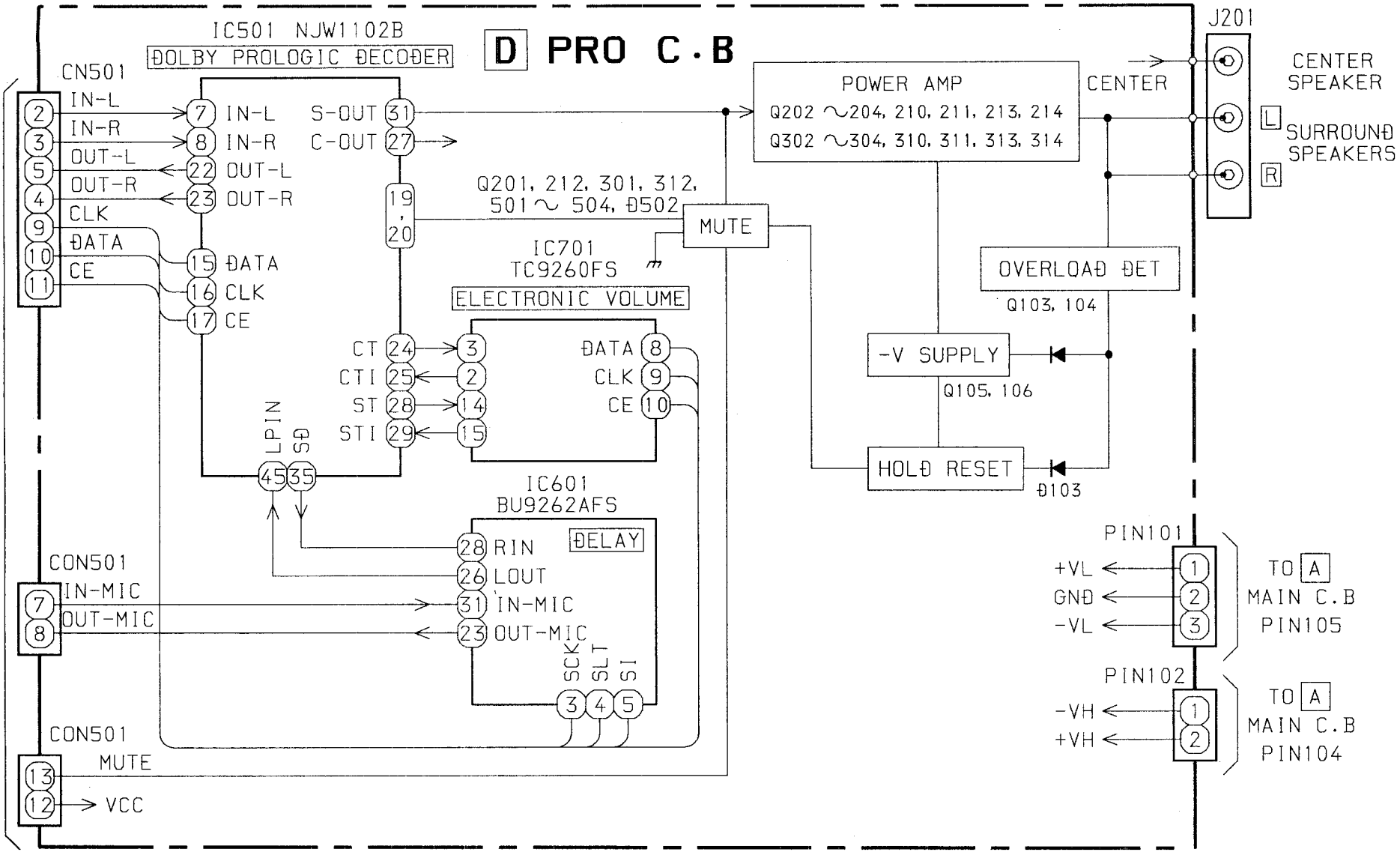
2SK2723



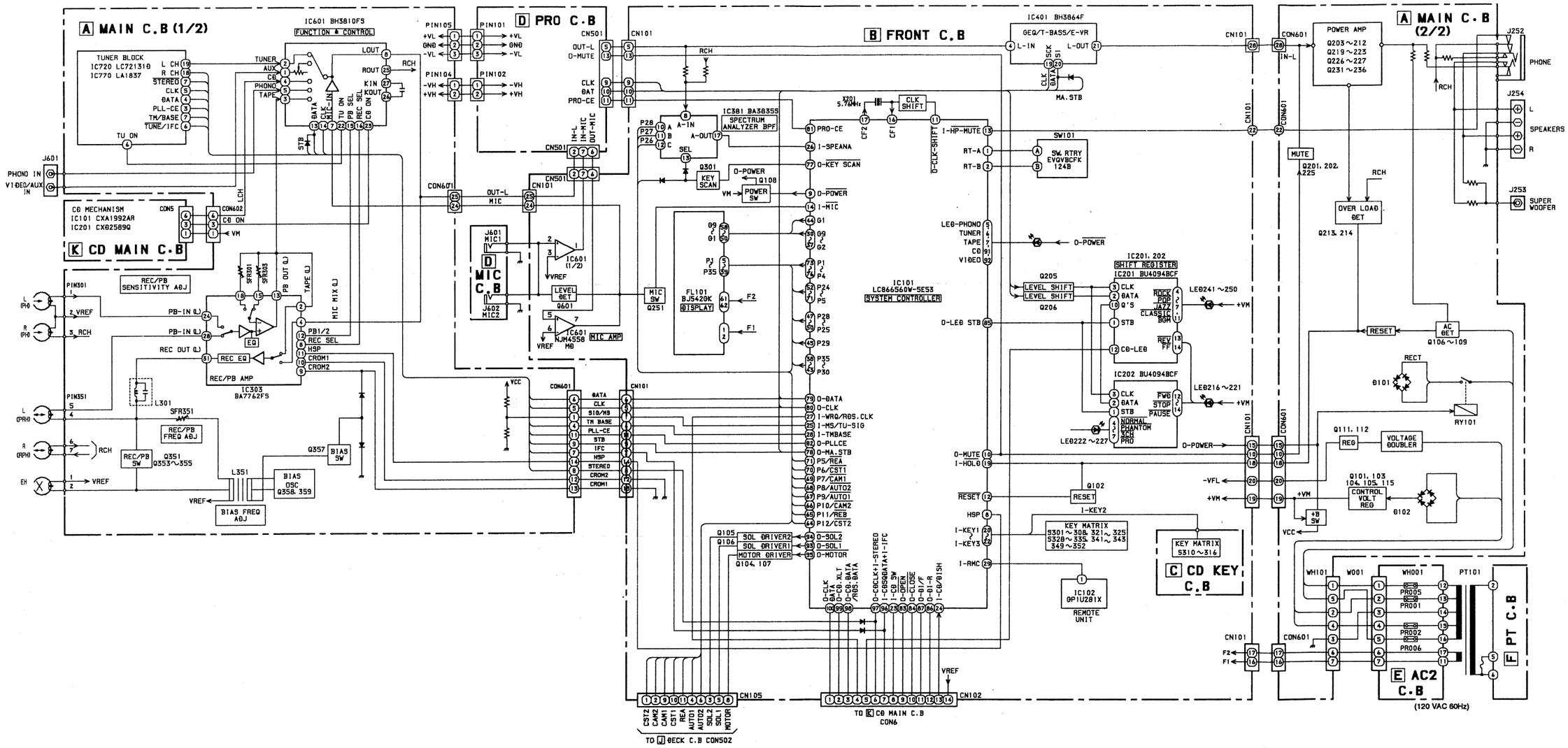
2SK2158



2SA1235F	DTA114YK
2SC2714	DTA144WK
2SC3052F	DTC114EK
CMBT5551	DTC114YK
CSA1362GR	RN1404
CSD1306E	RT1N141C
DTA114EK	


D PRO C.B
IC501 NJW1102B
ĐOLBY PROLOGIC ĐECOĐER
CN501
IN-L
IN-R
OUT-L
OUT-R
CLK
ĐATA
CE
TO B FRONT C.B CN502
S-OUT
C-OUT
Q201, 212, 301, 312, 501 ~ 504, Đ502
MUTE
IC701
TC9260FS
ELECTRONIC VOLUME
CT
CTI
ST
STI
LPIN
SĐ
IC601
BU9262AFS
ĐELAY
RIN
LOUT
IN-MIC
OUT-MIC
SCK
SLT
SI
CON501
IN-MIC
OUT-MIC
CON501
MUTE
VCC
POWER AMP
Q202 ~204, 210, 211, 213, 214
Q302 ~304, 310, 311, 313, 314
CENTER
J201
CENTER SPEAKER
L
SURROUNĐ SPEAKERS
R
OVERLOAĐ ĐET
Q103, 104
-V SUPPLY
Q105, 106
HOLĐ RESET
Đ103
PIN101
+VL
GNĐ
-VL
TO A MAIN C.B PIN105
PIN102
-VH
+VH
TO A MAIN C.B PIN104

BLOCK DIAGRAM – 2 (MAIN / FRONT)



1 2 3 4 5 6 7 8 9 10 11 12 13 14

A B C D E F G H I J

A MAIN C.B

EH RPH

DECK1

CON351 1 3 5 7 8

CON301 1 3

TO PIN351

TO PIN301

TO B FRONT C.B CN101 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 30

AM LOOP

J801 ANTENNA

FM 75Ω

J601 PHONO IN R L

TO K CD MAIN CONS W602 1 2 3

TO CON602

TO K J601 AUX IN R L

FROM E AC2 C.B WH101 W1 7 5 3 BLK WHT

J253 SUPER WOOFER

R L

J254 SPEAKERS

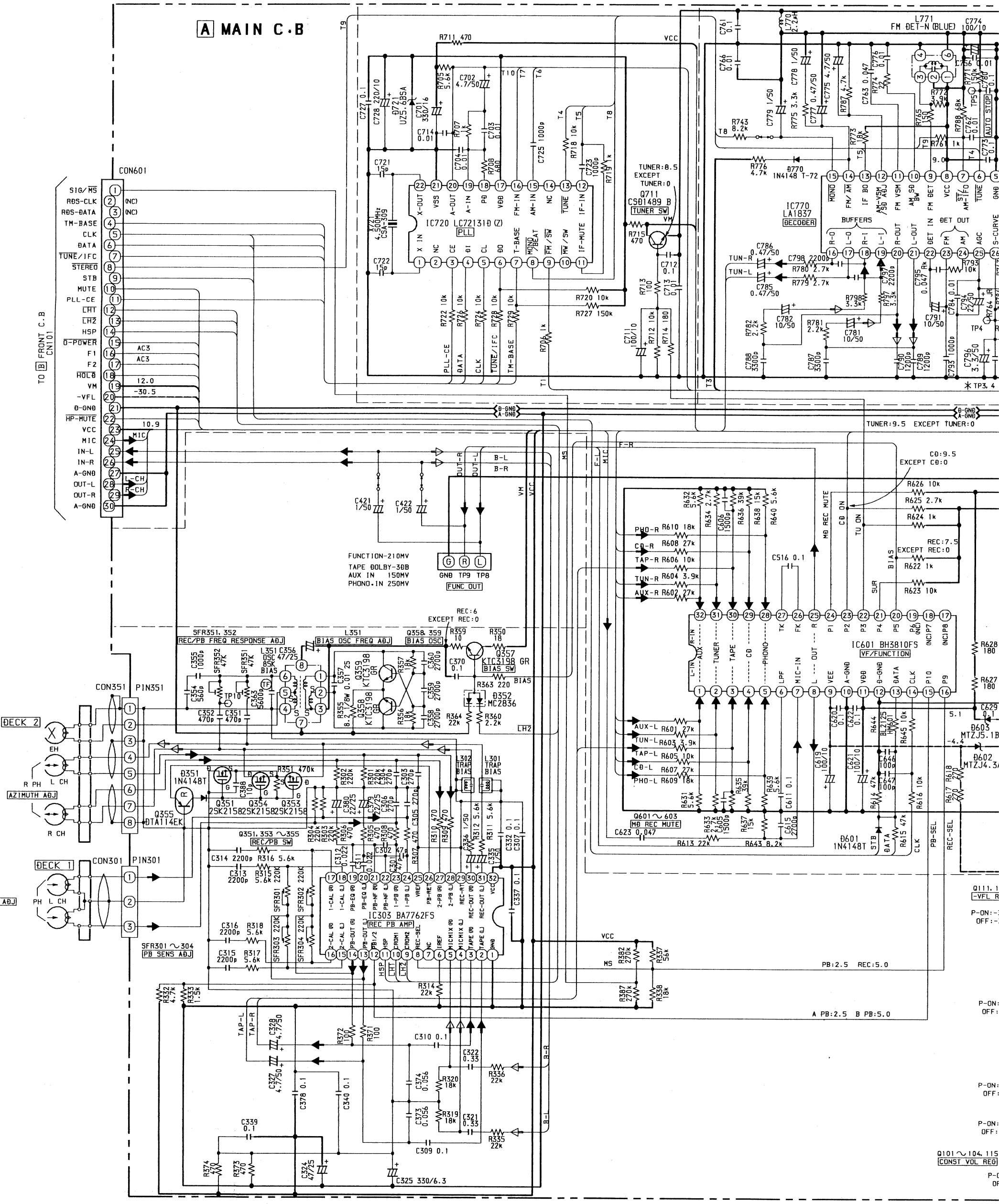
SPEAKER IMP:6Ω

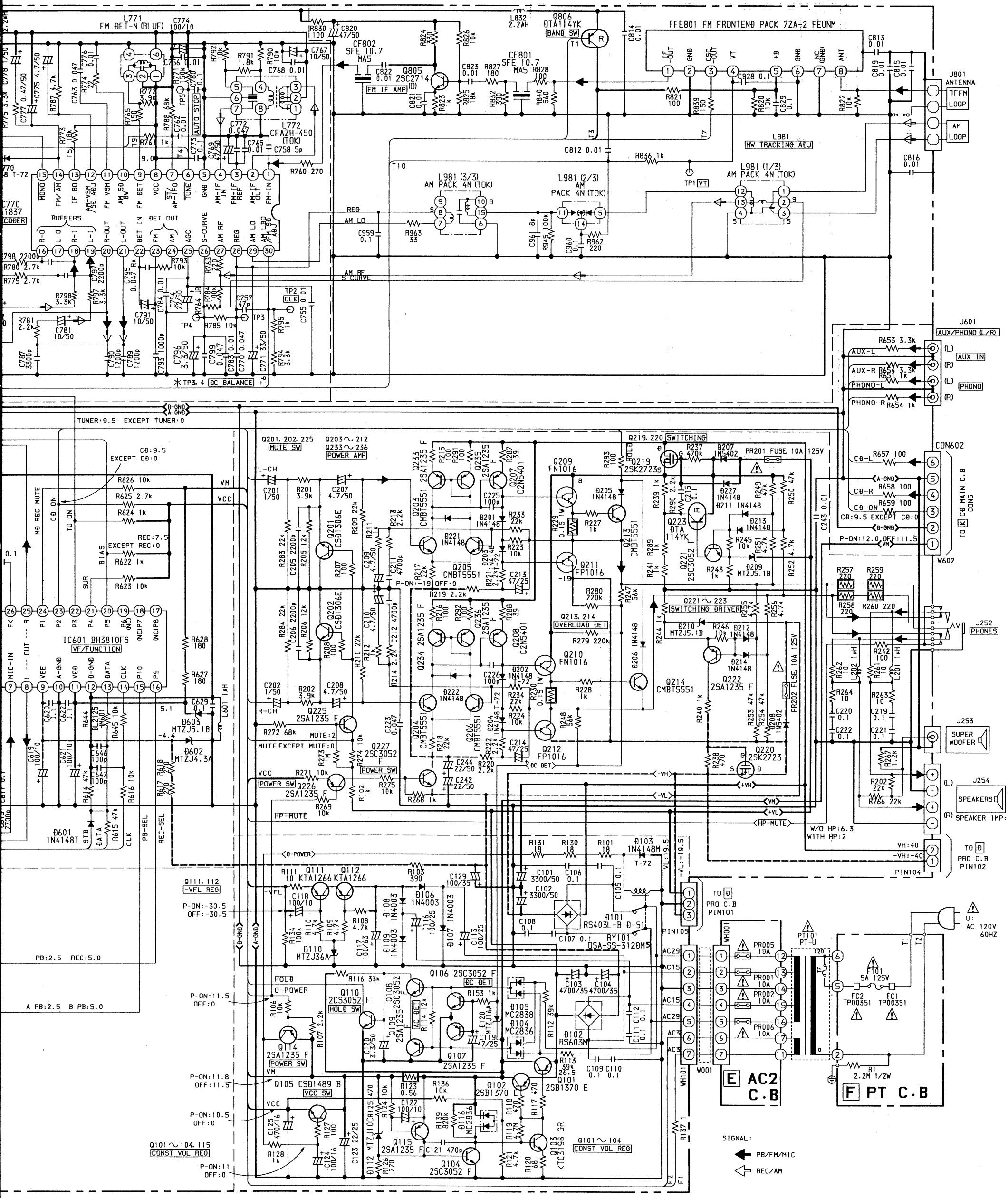
J252 PHONES

1 2 PIN104 TO D PRO C.B PIN102

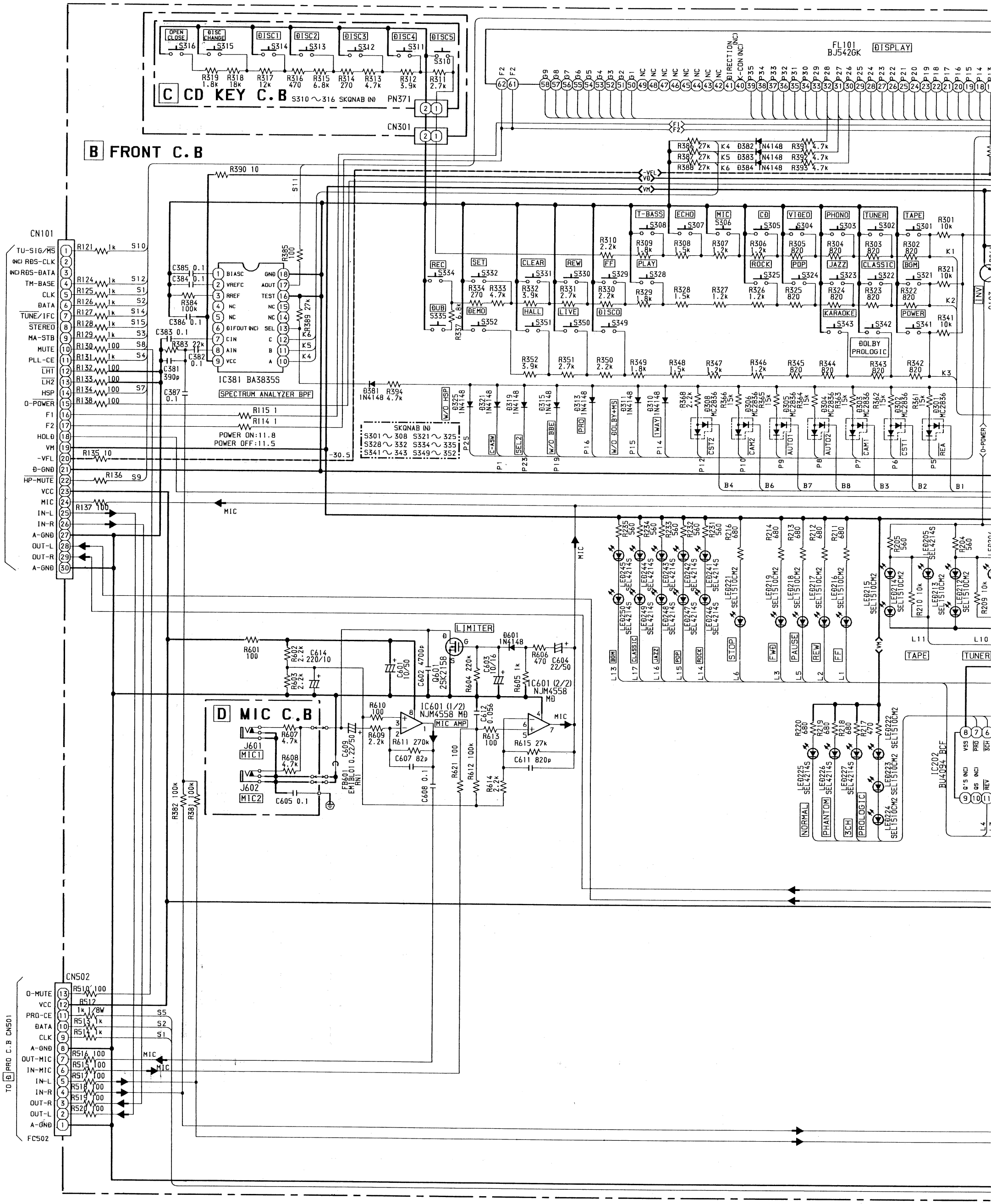
1 2 3 PIN105 TO D PRO C.B PIN101

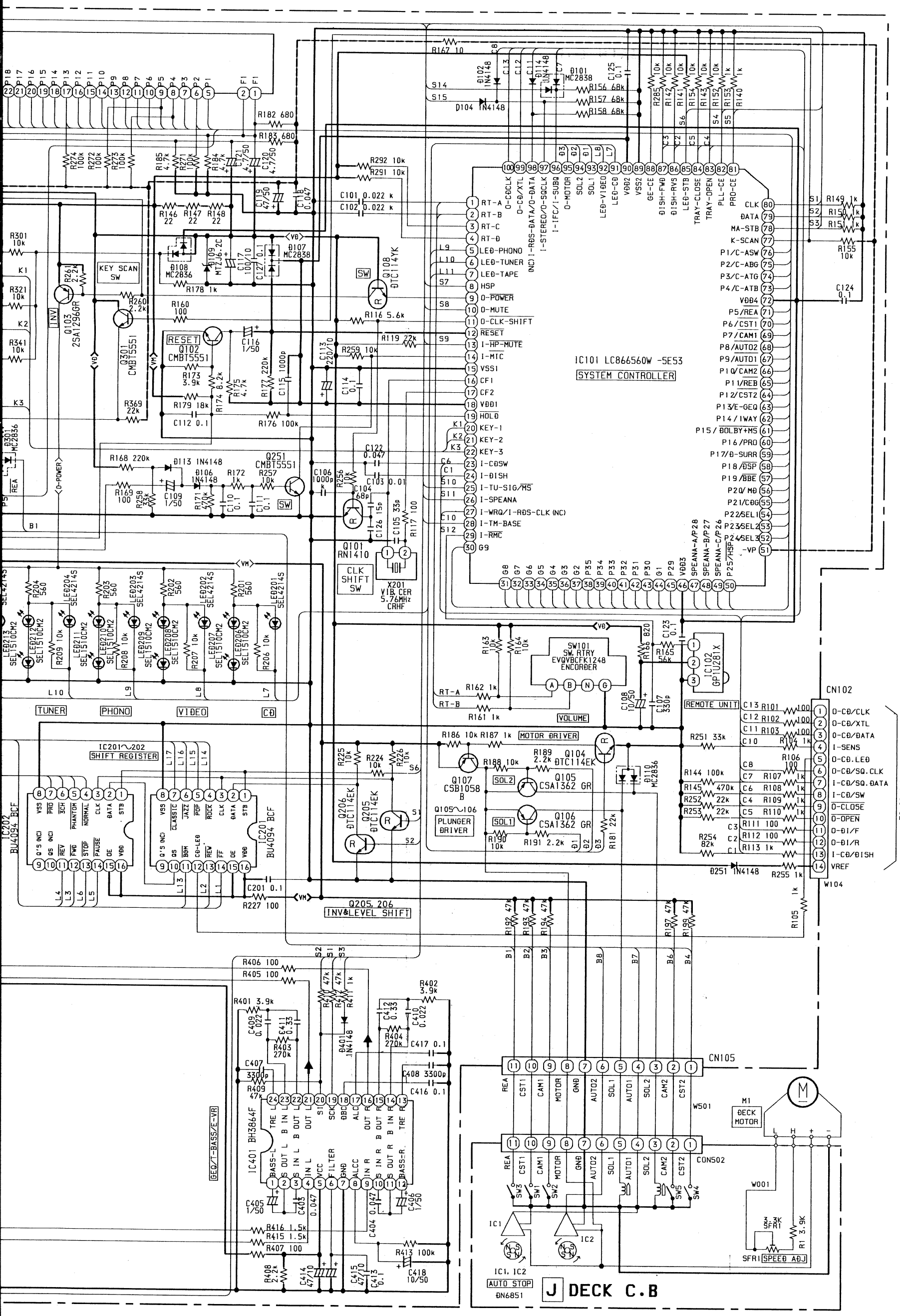
SCHEMATIC DIAGRAM – 1 (MAIN)

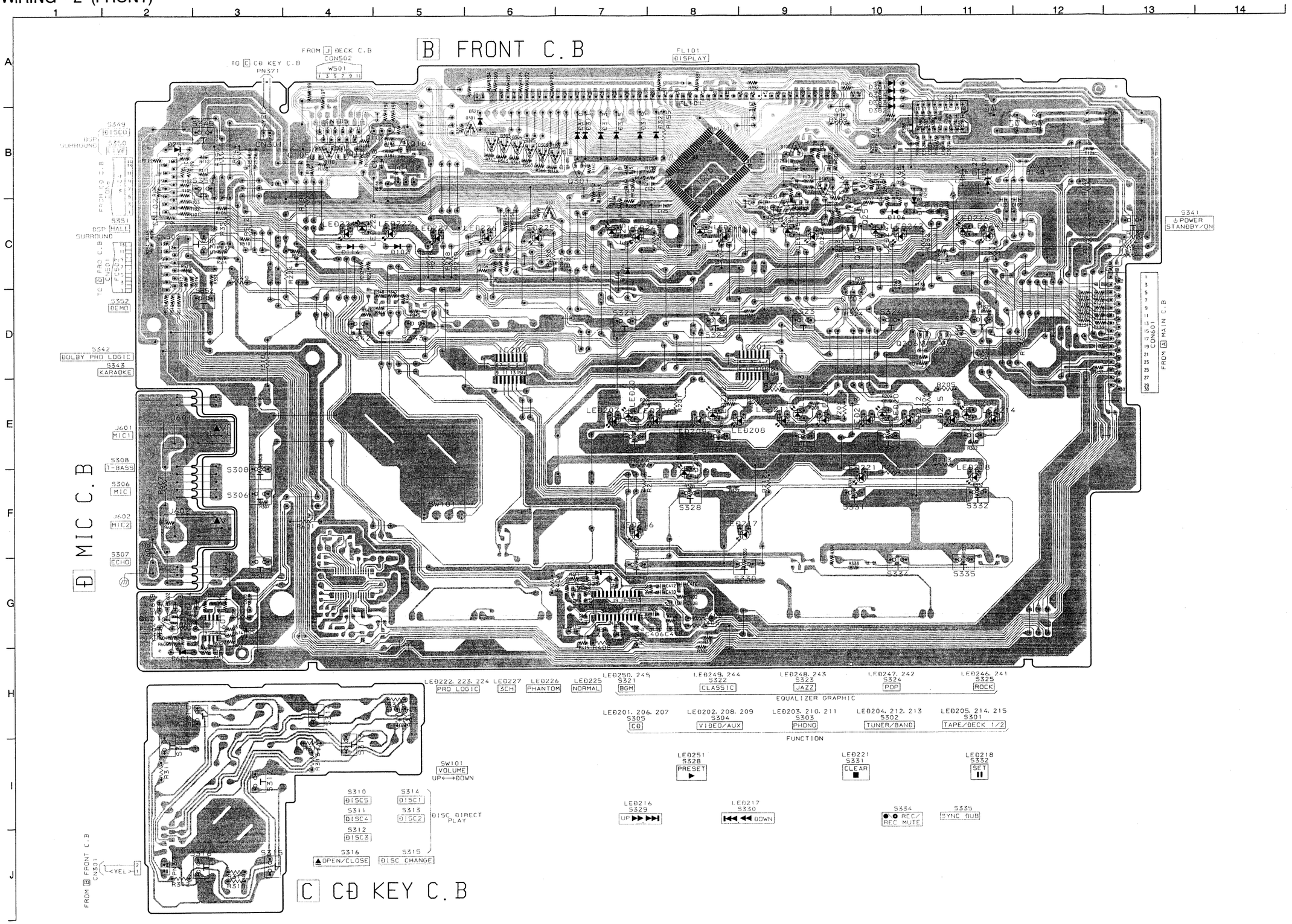



FFE801 FM FRONTEND PACK 7ZA-2 FEUNM
L771 FM DET-N (BLUE)
CF802 SFE 10.7 MA5
CF801 SFE 10.7 MA5
Q805 2SC2714 (O)
FM IF AMP
Q806 DTA114YK
BAND SW
L772 CFAZH-450 (TOK)
L981 MW TRACKING ADJ
L981 (1/3) AM PACK 4N (TOK)
L981 (2/3) AM PACK 4N (TOK)
L981 (3/3) AM PACK 4N (TOK)
J801 ANTENNA
IC601 BH3810FS VF/FUNCTION
BUFFERS
DET OUT
AM RF S-CURVE
REG
AM LO
TP1 VT
TP2 CLK
TP3
TP4
TP3, 4 DC BALANCE
J601 AUX/PHONO (L/R)
AUX IN
PHONO
TUNER:9.5 EXCEPT TUNER:0
CD:9.5 EXCEPT CD:0
REC:7.5 EXCEPT REC:0
Q201, 202, 225 MUTE SW
Q203~212 Q233~236 POWER AMP
Q219, 220 SWITCHING
PR201 FUSE, 10A 125V
PR202 FUSE, 10A 125V
CON602
TO K CD MAIN C.B CONS
W602
P-ON:12.0 OFF:11.5
Q221~223 SWITCHING DRIVERS
OVERLOAD DET
J252 PHONES
J253 SUPER WOOFER
J254 SPEAKERS
SPEAKER IMP:6Ω
W/O HP:6.3
WITH HP:2
TO D PRO C.B PIN102
PIN104
TO D PRO C.B PIN101
PIN105
WH001
WH101
W001
PR005 10A
PR001 10A
PR002 10A
PR006 10A
PT101 PT-U
F101 5A 125V
FC2 TP00351
FC1 TP00351
U: AC 120V 60HZ
E AC2 C.B
F PT C.B
Q111, 112 -VFL REG
Q101~104, 115 CONST VOL REG
Q101~104 CONST VOL REG
HP-MUTE
SIGNAL:
PB/FM/MIC
REC/AM
PB:2.5 REC:5.0
A PB:2.5 B PB:5.0

SCHEMATIC DIAGRAM – 2 (FRONT)




IC101 LC866560W -5E53
SYSTEM CONTROLLER
KEY SCAN SW
RESET
Q102 CMBT5551
SW
Q108 DTC114YK
Q103 2SA1296GR
Q301 CMBT5551
Q251 CMBT5551
Q101 RN1410
CLK SHIFT SW
X201 VIB CER 5.76MHz CRHF
D101 MC2838
D102 1N4148
D104 1N4148
D107 MC2838
D108 MC2836
D109 MTZJ6.2C
D113 1N4148
D106 1N4148
D110 MC2836
D251 1N4148
SW101 SW RTRY EVQVBCFK1248 ENCORDER
IC102 GP1U281X
REMOTE UNIT
VOLUME
MOTOR DRIVER
PLUNGER DRIVER
SHIFT REGISTER
IC202 BU4094 BCF
IC201 BU4094 BCF
Q205, 206 INV&LEVEL SHIFT
IC401 BH3864F
GEQ/T-BASS/E-VR
TUNER
PHONO
VIDEO
CD
CN102
TO CD C.B CON6
CN105
W501
CON502
W001
M1 DECK MOTOR
IC1, IC2 AUTO STOP
DN6851
J DECK C.B
SIGNAL: ← PB/MIC


B FRONT C.B
FROM J DECK C.B
CON502
W501
TO C CD KEY C.B
PN371
FL101
DISPLAY
S349
BISCO
DSP SURROUND
S350
FVF
S351
DSP HALL SURROUND
S352
DEMO
S342
DOLBY PRO LOGIC
S343
KARAOKE
S341
POWER
STANDBY/ON
FROM A MAIN C.B
CON601
D MIC C.B
J601
MIC1
J602
MIC2
S308
1-BASS
S306
MIC
S307
ECHO
SW101
VOLUME
UP←→DOWN
S310
DISC5
S314
DISC1
S311
DISC4
S313
DISC2
S312
DISC3
DISC DIRECT PLAY
S316
OPEN/CLOSE
S315
DISC CHANGE
C CD KEY C.B
FROM B FRONT C.B
CN331
YEL
LED222, 223, 224
PRO LOGIC
LED227
3CH
LED226
PHANTOM
LED225
NORMAL
LED250, 245
S321
BGM
LED249, 244
S322
CLASSIC
LED248, 243
S323
JAZZ
LED247, 242
S324
POP
LED246, 241
S325
ROCK
EQUALIZER GRAPHIC
LED201, 206, 207
S305
CD
LED202, 208, 209
S304
VIDEO/AUX
LED203, 210, 211
S303
PHONO
LED204, 212, 213
S302
TUNER/BAND
LED205, 214, 215
S301
TAPE/DECK 1/2
FUNCTION
LED251
S328
PRESET
LED221
S331
CLEAR
LED218
S332
SET
LED216
S329
UP
LED217
S330
DOWN
S334
REC/ REC MUTE
S335
SYNC DUB

Ð PRO C.B

TO [B] FRONT C.B
CN502
FC502
13 11 9 7 5 3 1

FROM [A] MAIN C.B
PIN105
REAR
3 2 1

CN501
J3 H 8 7 5 3 1

PIN101
3 2 1

PIN102
2 1

J201
CENTER SPEAKERS
SPEAKER IMP: 8Ω

J201
SURROUND SPEAKERS
SPEAKER IMP: 16Ω

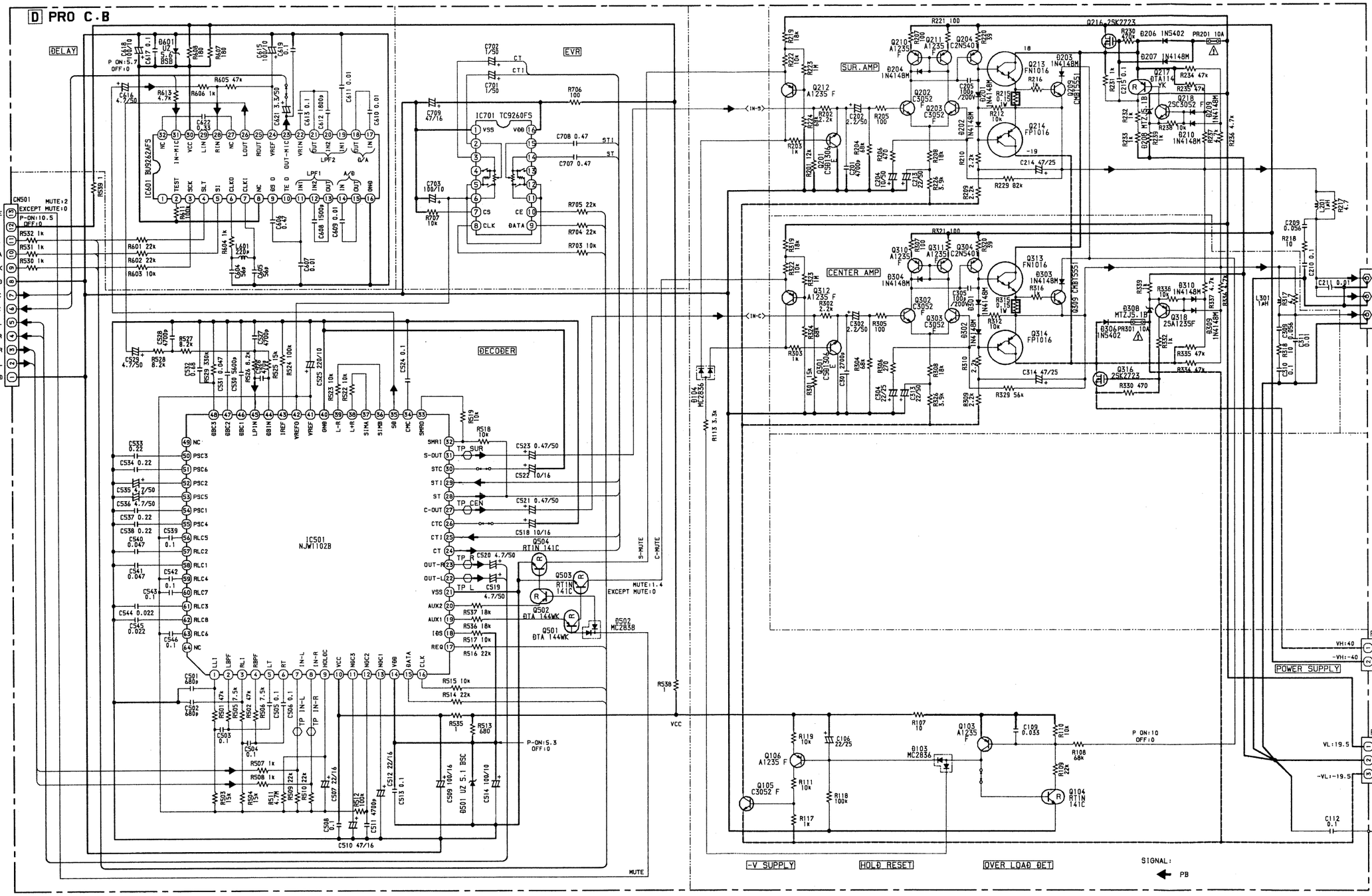
L

R

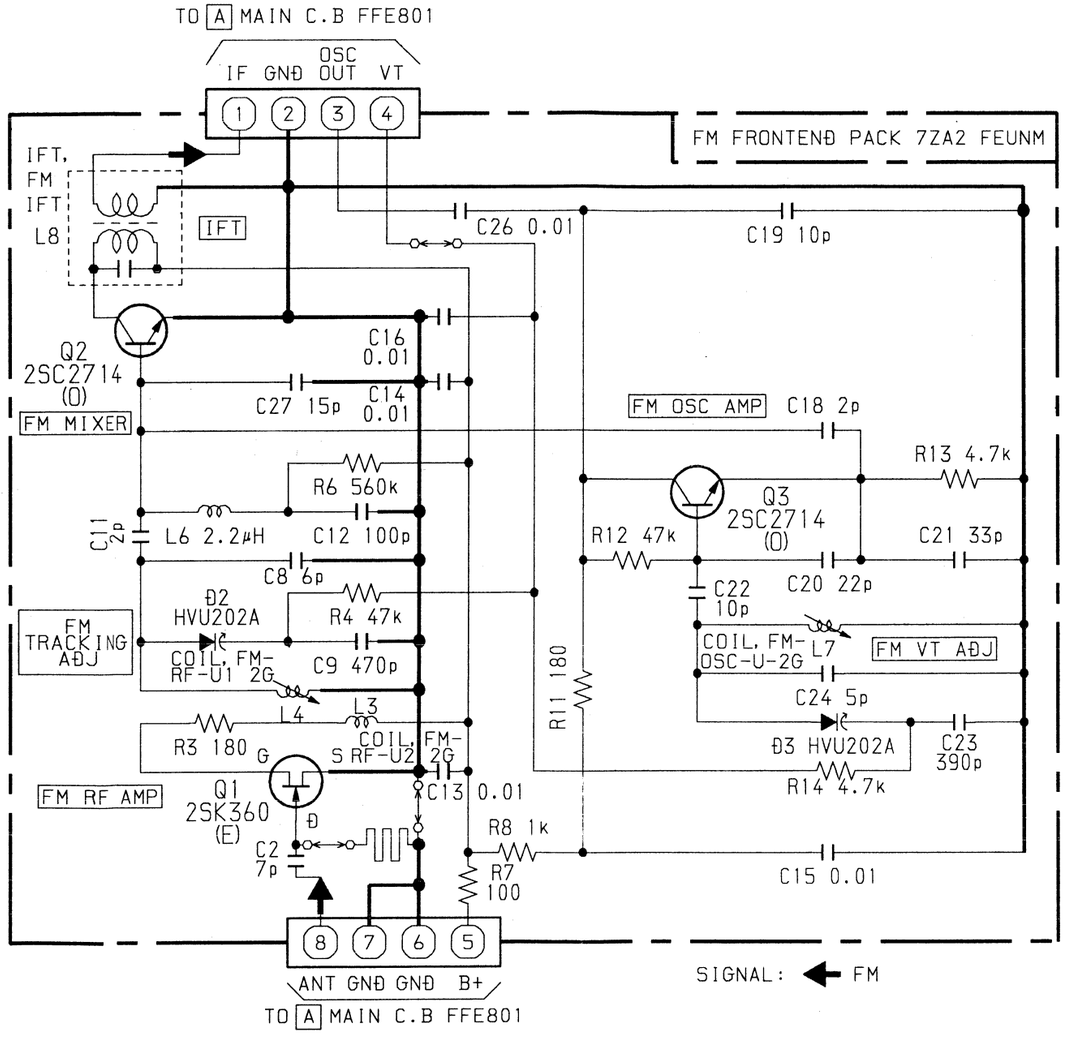
2 1
REAR

FROM [A] MAIN C.B
PIN104

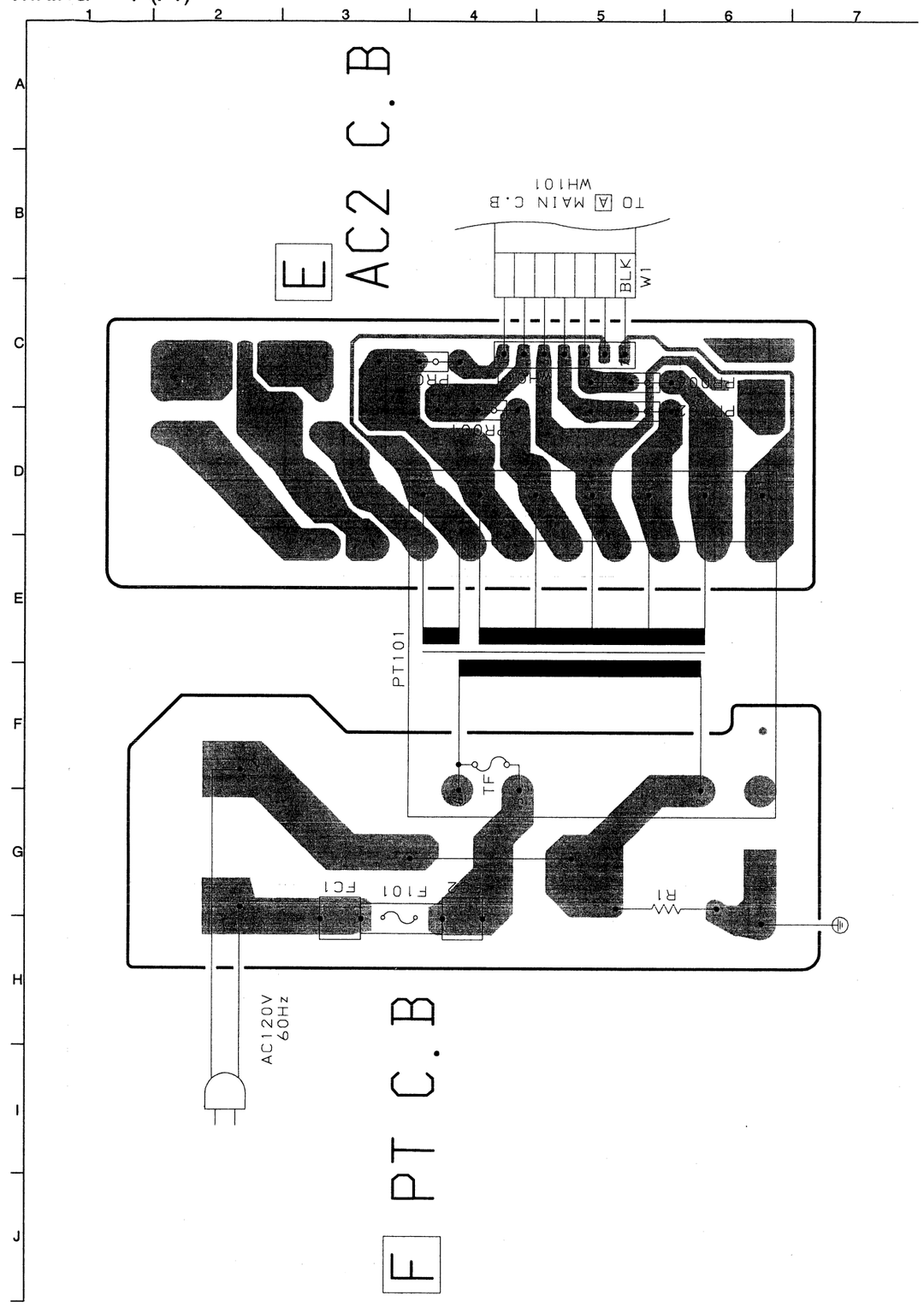
SCHEMATIC DIAGRAM – 3 (PROLOGIC)



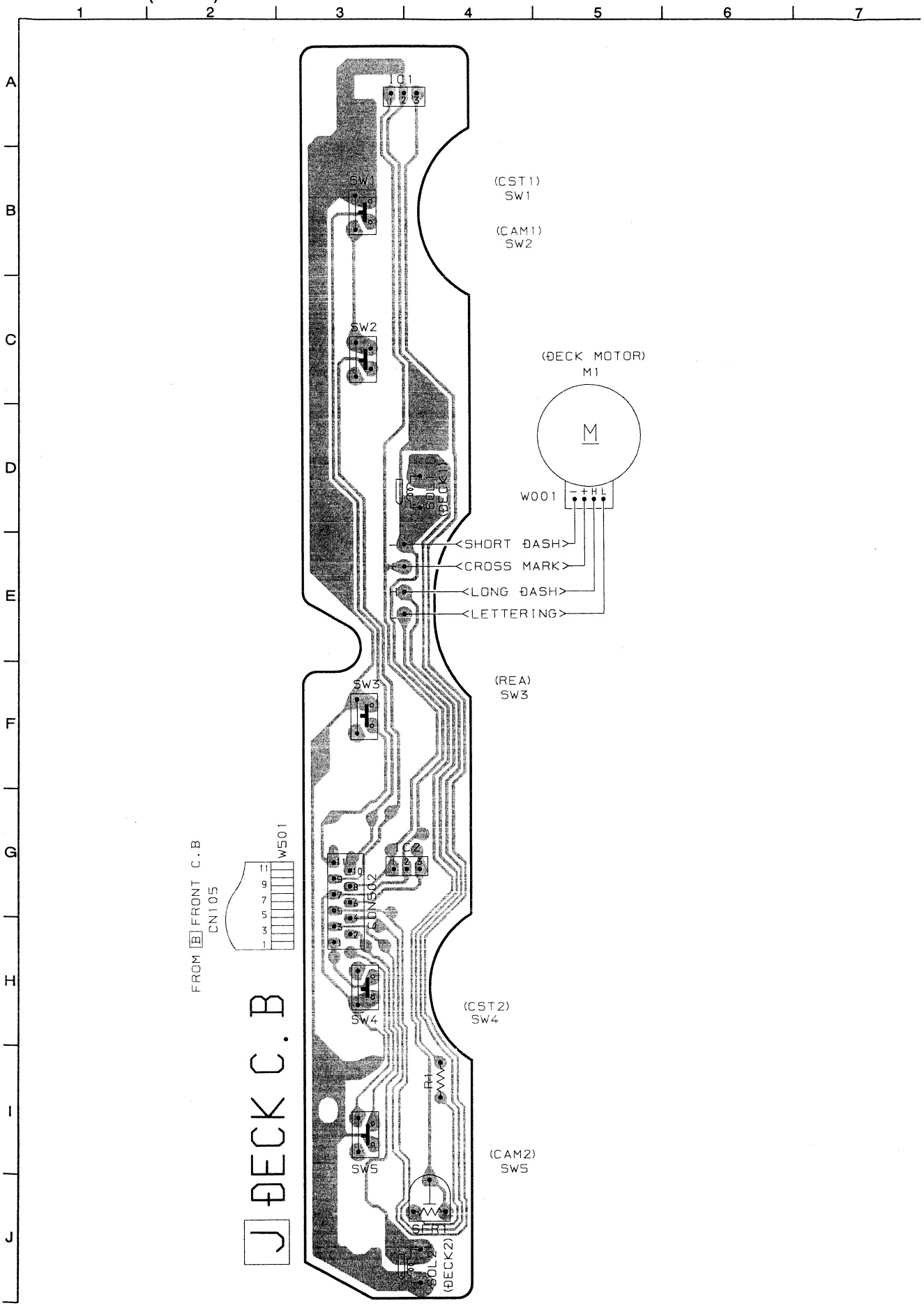
SCHEMATIC DIAGRAM – 4 (TUNER FRONT END)



WIRING – 4 (PT)

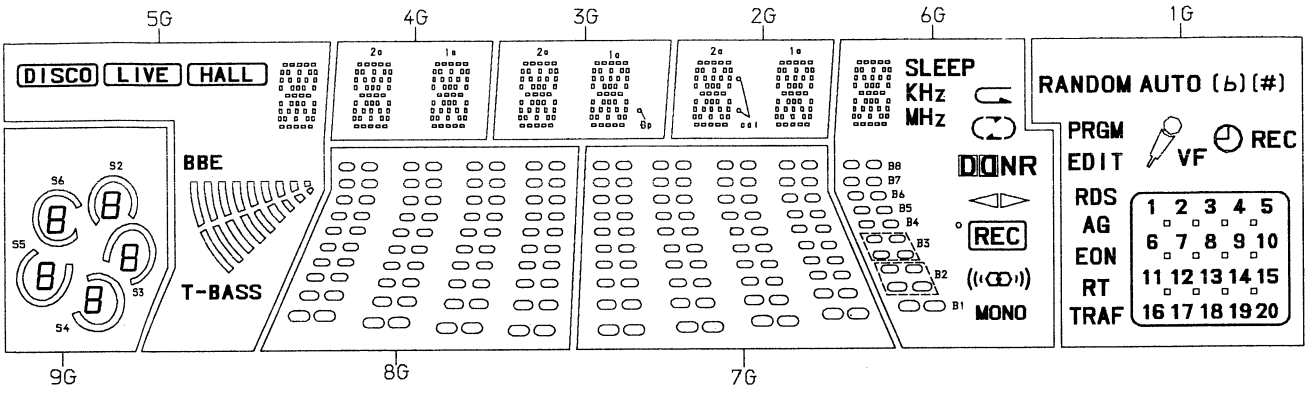


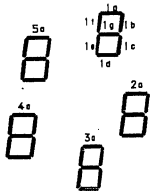
WIRING – 5 (DECK)



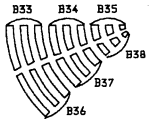
FL GRID ASSIGNMENT & ANODE CONNECTION

GRID ASSIGNMENT
FL, BJ542GK

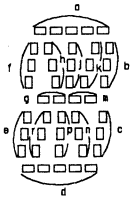




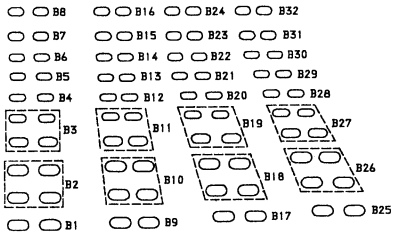
[9G]



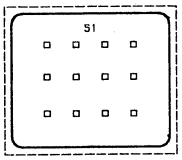
[5G]



[6G ~ 2G]



[8G, 7G]



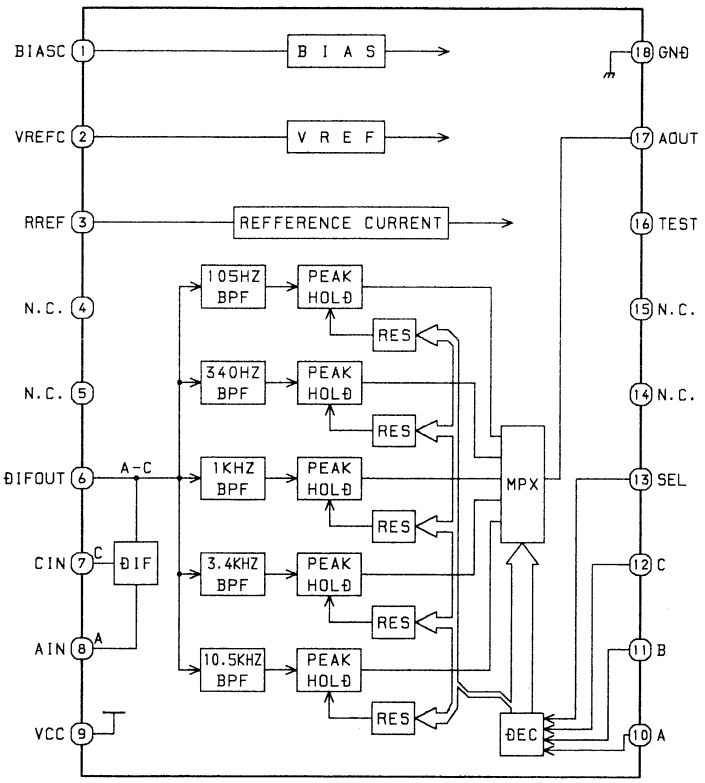
[1G]

ANODE CONNECTION

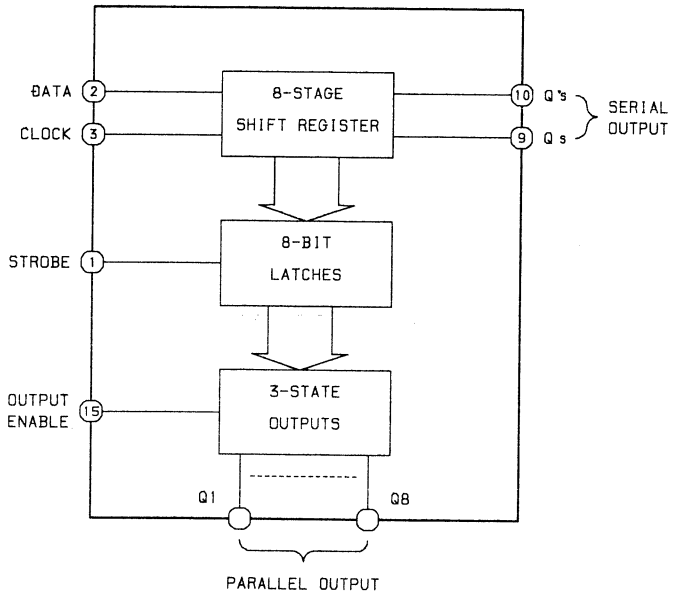
	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S4	B8	B8	d	d	1d	1d	1d	RANDOM
P2	3e	B16	B16	n	n	1n	1n	1n	PRGM
P3	3c	B24	B24	p	p	1p	1p	1p	EDIT
P4	3g	B32	B32	r	r	1r	1r	1r	S1
P5	3f	B7	B7	e	e	1e	1e	1e	1
P6	3b	B15	B15	c	c	1c	1c	1c	2
P7	3a, 3d	B23	B23	g	g	1g	1g	1g	3
P8	S5/	B31	B31	m	m	1m	1m	1m	4
P9	4e	B6	B6	f	f	1f	1f	1f	5
P10	4c	B14	B14	b	b	1b	1b	1b	6
P11	4g	B22	B22	k	k	1k	1k	1k	7
P12	4f	B30	B30	j	j	1j	1j	1j	8
P13	4b	B5	B5	h	h	1h	1h	1h	9
P14	4a, 4d	B13	B13	a	a	1a	1a	1a	10
P15	S2	B21	B21	DD NR	B35	-	Đp	col (down)	11
P16	1a, 1d	B29	B29	▷	B34	-	-	col(up)	12
P17	1b	B4	B4	◁	B33	2d	2d	2d	13
P18	1f	B12	B12	○	BBE	2n	2n	2n	14
P19	1g	B20	B20	REC	B38	2p	2p	2p	15
P20	1c	B28	B28	B8	B37	2r	2r	2r	16
P21	1e	B3	B3	B7	B36	2e	2e	2e	17
P22	S6	B11	B11	B6	T-BASS	2c	2c	2c	18
P23	5a, 5d	B19	B19	B5	(HALL)	2g	2g	2g	19
P24	5b	B27	B27	B4	(LIVE)	2m	2m	2m	20
P25	5f	B2	B2	B3	(ĐISCO)	2f	2f	2f	RDS
P26	5g	B10	B10	B2	ĐISCO LIVE HALL	2b	2b	2b	AG
P27	5c	B18	B18	B1	-	2k	2k	2k	EON
P28	5e	B26	B26	((○))	-	2j	2j	2j	RT
P29	S3	B1	B1	MONO	-	2h	2h	2h	TRAF
P30	2a, 2d	B9	B9	)	-	2a	2a	2a	REC
P31	2b	B17	B17	(	-	-	-	-	◴
P32	2f	B25	B25	MHz	-	-	-	-	VF
P33	2g	-	-	KHz	-	-	-	-	AUTO
P34	2c	-	-	⊂	-	-	-	-	((b))
P35	2e	-	-	SLEEP	-	-	-	-	((#))
P36	-	-	-	-	-	-	-	-	b #
P37	-	-	-	⧗	-	-	-	-	-

IC BLOCK DIAGRAM – 1

IC, BA3835S



IC, BU4094BCF



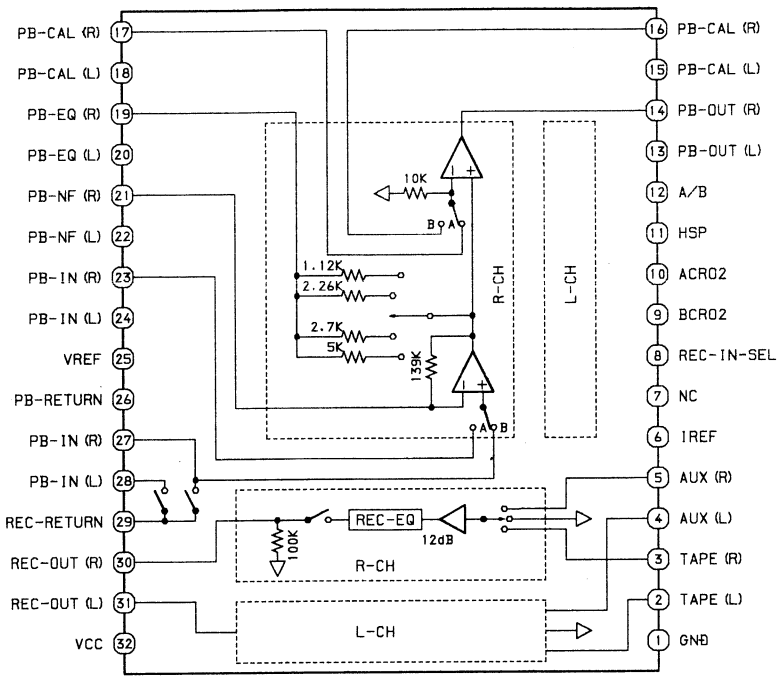
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	X	X	Z	Z	Q7	NO Chg.
↓	L	X	X	Z	Z	No Chg.	Qs
↑	H	L	X	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	X	X	No Chg.	No Chg.	No Chg.	Qs

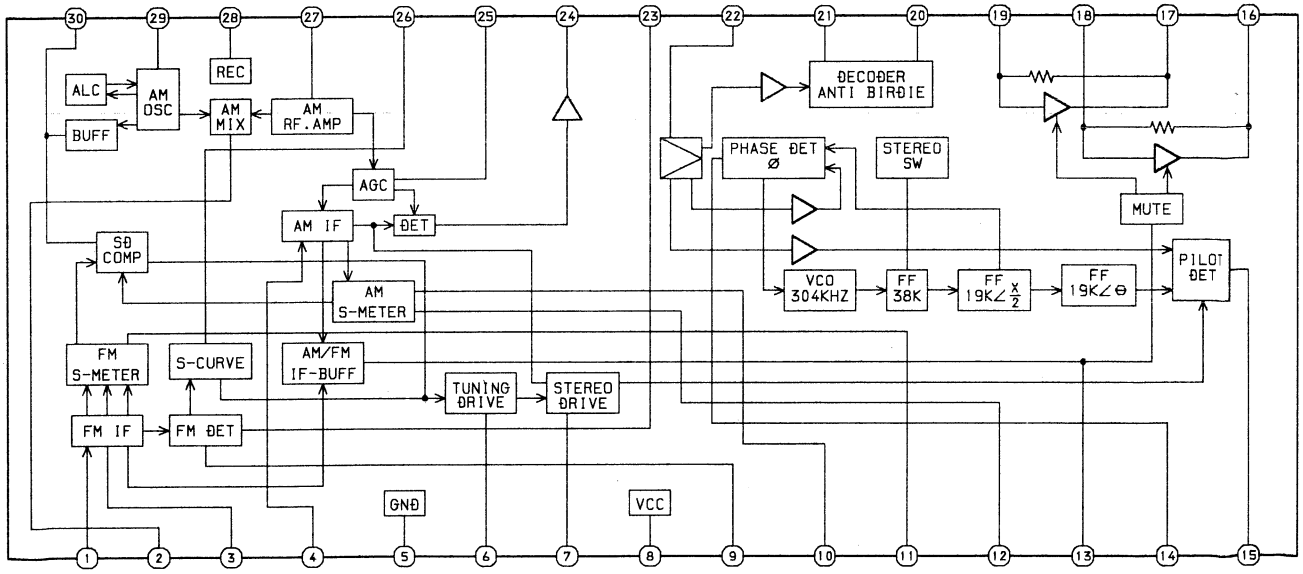
Z=High Impedance

X=Don't Care

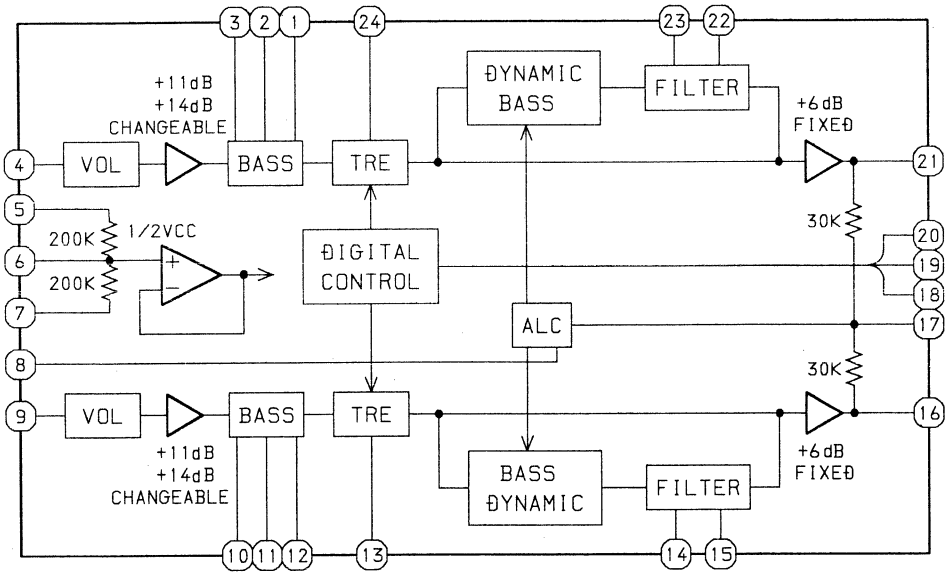
IC, BA7762FS



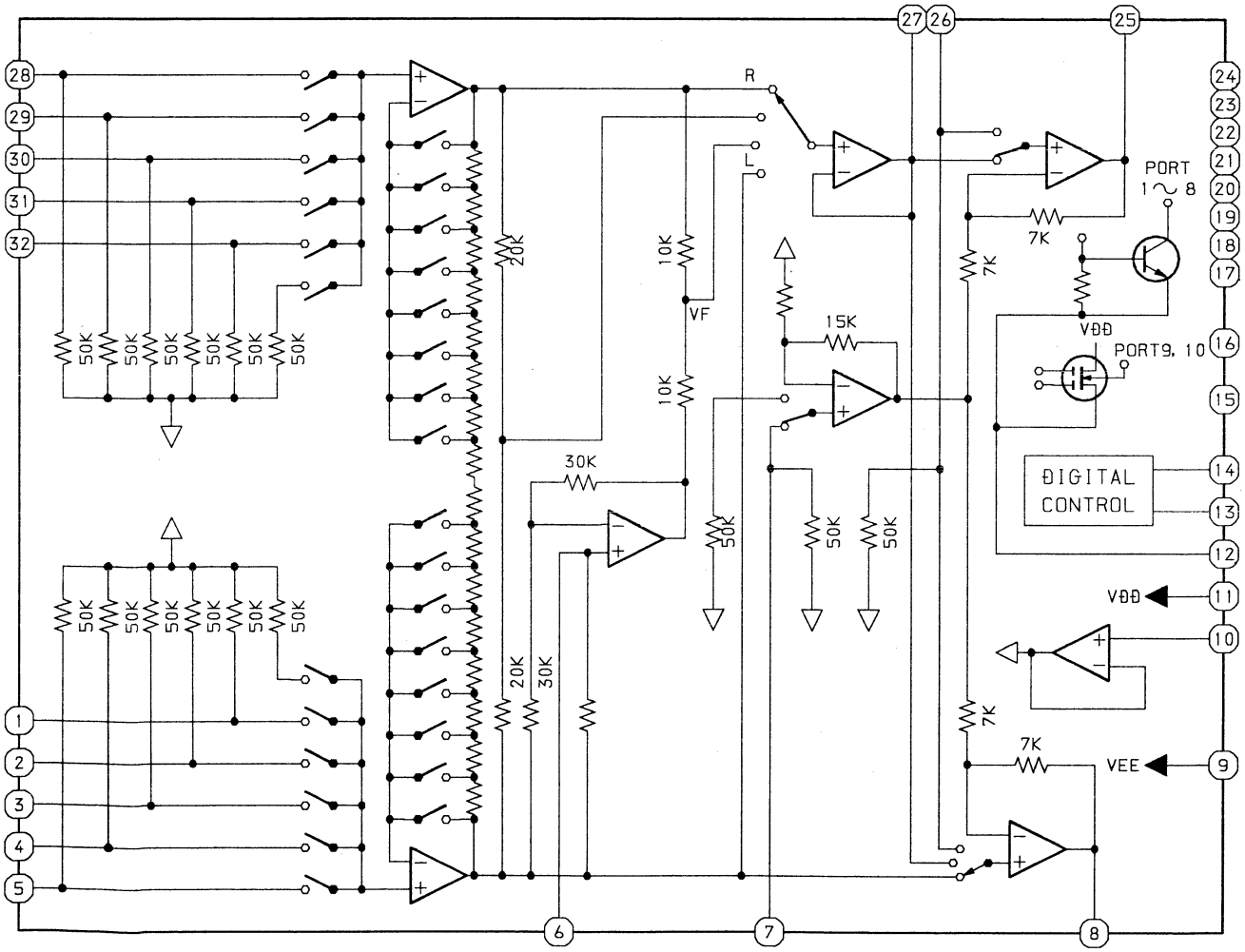
IC, LA1837



IC, BH3864F



IC, BH3810FS



IC DESCRIPTION

IC, LC866560W-5E53

Pin No.	Pin Name	I/O	Description
1	RT-A	I	ROTARY-ENCODER data input.
2	RT-B	I	ROTARY-ENCODER data input.
3	RT-C	-	Not used.
4	RT-D	-	Not used.
5	LED-PHONO	O	PHONO-LED drive output.
6	LED-TUNER	O	TUNER-LED drive output.
7	LED-TAPE	O	TAPE-LED drive output.
8	HSP	O	DECK high-speed output.
9	O-$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
10	O-MUTE	O	System mute $\overline{\text{ON}}$/OFF output.
11	$\overline{\text{O-CLK-SHIFT}}$	O	Micon clock shift output (active low).
12	$\overline{\text{RESET}}$	I	Reset input.
13	I-$\overline{\text{HP-MUTE}}$	I	PRO-LOGIC mute input.
14	$\overline{\text{I-MIC}}$	I	Microphone level A/D input for auto vocal fader.
15	VSS1	-	GND terminal.
16,17	CF1, 2	I/O	5.76 MHz oscillator circuit.
18	VDD1	-	Power supply input.
19	I-$\overline{\text{HOLD}}$	I	Power failure detect input (Hold at 'L') P74 input data is 1 at 'L' level.
20~22	I-KEY1 - 3	I	Key input. (A/D)
23	I-CD/SW	I	CD mechanical switch A/D converter input.
24	I-CD/DISH	I	CD turntable photo sensor A/D converter input.
25	I-$\overline{\text{MS}}$/I-TU-SIG	I	Deck music sensor signal input / RDS signal input (Not used).
26	I-SPEANA	I	A/D input for spectrum analyzer display.
27	I-WRQ/I-RDS-CLK	I	CD WRQ input. Tuner RDS CLOCK input (Not used).
28	I-TM BASE	I	DSP data latch strobe output.
29	I-$\overline{\text{RMC}}$	I	System remote control signal input (active low).
30~37,44	G9~G1	O	FL grid output G9~G1.
38~43,45	P35~P29	O	FL segment output P35~P29.
46	VDD3	-	Power supply input.
47	P28/SPEANA-A	O	FL segment output P28/spectrum analyzer band select output (A).
48	P27/SPEANA-B	O	FL segment output P27/spectrum analyzer hand select output (B).
49	P26/SPEANA-C	O	FL segment output P26/spectrum analyzer band select output (C).
50	P25	O	FL segment output P25.
51	-VP	-	Power supply input for FL display.
52	P24/SEL3	O	FL segment output P24 / tuner band select 3.
53	P23/SEL2	O	FL segment output P23 / tuner band select 2.
54	P22/SEL1	O	FL segment output P22 / tuner band select 1.
55	P21/CDG	O	FL segment output P21.
56	P20/MD	O	FL segment output P20.
57	P19/$\overline{\text{BBE}}$	O	FL segment output P19.
58	P18/$\overline{\text{DSP}}$	O	FL segment output P18.

Pin No.	Pin Name	I/O	Description
59	P17/D-SURR	O	FL segment output P17.
60	P16/K-PRO	O	FL segment output P16.
61	P15/$\overline{\text{DOLBY+MS}}$	O	FL segment output P15.
62	P14/1WAY	O	FL segment output P14.
63	P13/E-GEQ	O	FL segment output P13.
64	P12/CST2	I	FL segment output P12/DECK2 cassette detect switch data input.
65	P11/REB	I	FL segment output P11/DECK2 side-B record OK switch data input.
66	P10/CAM2	I	FL segment output P10/DECK2 cam switch data input.
67	P9/AUTO1	I	FL segment output P9/DECK1 auto stop signal input.
68	P8/AUTO2	I	FL segment output P8/DECK2 auto stop signal input.
69	P7/CAM1	I	FL segment output P7/DECK1 cam switch data input.
70	P6/CST1	I	FL segment output P6/DECK1 cassette detect switch data input.
71	P5/REA	I	FL segment output P5/DECK2 side-A record OK switch data input.
72	VDD4	-	Power supply input.
73	P4/C-ATB	O	FL segment output P4.
74	P3/C-ATG	O	FL segment output P3.
75	P2/C-ABG	O	FL segment output P2.
76	P1/C-ASW	O	FL segment output P1.
77	O-KEY·SCAN	O	Segment input enable output (active low).
78	O-M/STB	O	Main shift register data latch strobe output.
79	O-/DATA	O	Shift register/PLL/DSP/GEQ/T-BASS/E-VR related data output.
80	O-/CLK	O	Shift register/PLL/DSP/GEQ/T-BASS/E-VR related data transfer clock output.
81	O-PRO-CE	O	PRO-LOGIC data latch strobe output.
82	O-PLLCE	O	PLL IC chip enable output.
83	O-OPEN	O	CD tray open data output.
84	O-CLOSE	O	CD tray close data output.
85	O-F/STB	O	Front shift register data latch strobe output.
86	DI/R	O	CD turntable reverse rotation output.
87	DI/F	O	CD turntable forward rotation output.
88	O-GE-CE	O	GE data latch strobe output. Not used.
89	VSS2	-	GND terminal.
90	VDD2	-	Power supply input.
91	LED-CD	O	CD-LED drive output.
92	LED-VIDEO	O	VIDEO-LED drive output.
93	O-SOL1	O	DECK1 plunger $\overline{\text{ON}}$/OFF output.
94	O-SOL2	O	DECK2 plunger $\overline{\text{ON}}$/OFF output.
95	O-MOTOR	O	DECK motor ON/$\overline{\text{OFF}}$ output.
96	I-CD·SQ DATA/ I-TUNE/IFC	I	CD SUB-Q data input / Tuner SD detected input. IF count serial data input.
97	O-CD·SQ CLK/ I-STEREO	I/O	Clock output for CD SUB-Q data input / Watch reference clock input (8/50/60 Hz automatic supported).

Pin No.	Pin Name	I/O	Description
98	O-CD/DATA/ I-RDS-DATA	I/O	CD IC control data output / RDS data input (Not used).
99	O-CD/XLT	O	CD IC control data latch output.
100	O-CD/CLK	O	CD IC control data transfer clock output.

IC, LC72131

Pin No.	Pin Name	I/O	Description
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.
22	XOUT		
2	NC	–	Not used.
3	CE	I	To enable the IC. Active "H".
4	DI	I	Digital data input from CPU (LC866560W-5E23) when relevant key is operated. Active "H".
5	CLK	I	To clock in the data DI.
6	DO	O	Digital data output to CPU (LC866560W-5E23).
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.
8	$\overline{\text{MONO}}$ / BEAT	O	Outputs "H" when MONO / BEAT is switched.
9	$\overline{\text{FM}}$ / AM	O	Output "L" or "H" as follows: 2 BAND: AM H, FM L 3 BAND: LW H, MW H, FM L 3 BAND: MW H, SW L, FM L
10	$\overline{\text{MW}}$	O	Outputs "L" or "H" as follows: 2 BAND: AM L, FM L 3 BAND: LW H, MW L, FM L 3 BAND: MW L, SW H, FM L
11	IF-MUTE	O	To control internal counter.
12	IFIN	I	General purpose counter input.
13	$\overline{\text{TUNE}}$	I	Receives "L" when station is tuned.
14	NC	–	Not used.
15	A MIN	I	Receives the AM local oscillator frequency signal.
16	F MIN	I	Receives the FM local oscillator frequency signal.
17	VDD	–	Supply power to IC (+5V).
18	PD	O	PLL charge pump output.
19	AIN	I	The MOS transistor for PLL active low pass filter.
20	AOUT	O	
21	VSS	–	Ground.

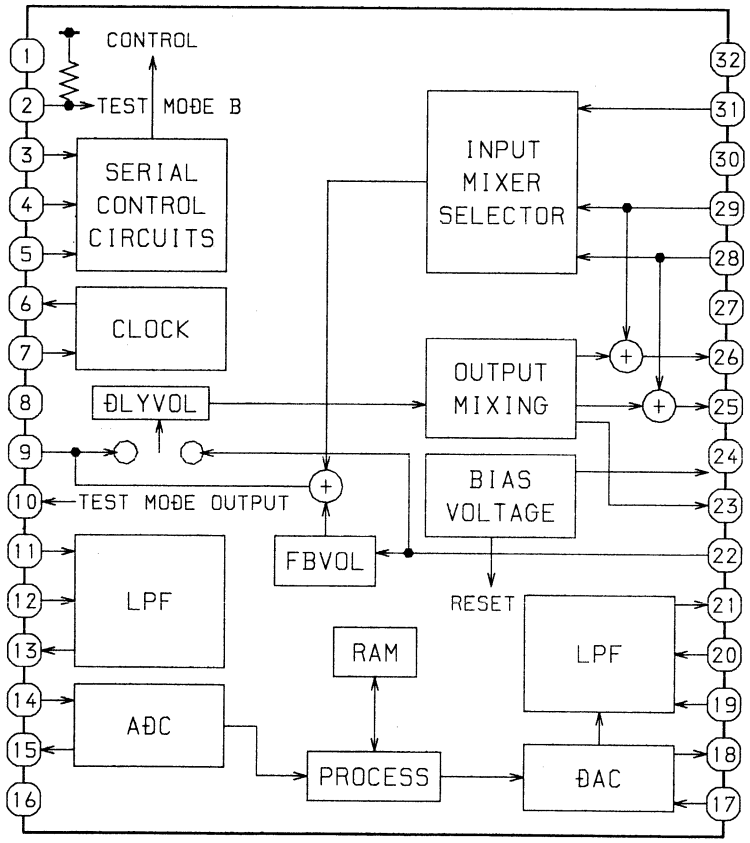
IC, NJW1102B

Pin No.	Pin Name	I/O	Description
1	LLI	I	L channel BPF in.
2	LBPF	O	L channel BPF feed back out.
3	RLI	I	R channel BPF in.
4	RBPF	O	R channel BPF feed back out.
5	LT	O	L channel selector #1 out.
6	RT	O	R channel selector #1 out.
7	LIN	I	L channel signal input.
8	RIN	I	R channelsignal input.
9	HOLDC	I	Auto input balance control.
10	VCC	–	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14	VDD	–	Power supply.
15	DATA	I	Serial data input.
16	SCK	I	Serial clock input.
17	REQ	I	Serial request (strobe) input.
18	IDS	I	ID select sw.
19	AUX1	O	AUX1 output (serial data change parallel output).
20	AUX2	O	AUX2 output (serial data change parallel output).
21	VSS	–	GND.
22	LOUT	O	L channel signal output.
23	ROUT	O	R channel signal output.
24	CT	O	Center channel output (before trimmer).
25	CTI	I	Center channel trimmer input.
26	CTC	O	Center channel trimmer coupling capacitor out.
27	COUT	O	Center channel trimmer output.
28	ST	O	Surround channel output (before trimmer).
29	STI	I	Surround channel trimmer input.
30	STC	O	Surround channel trimmer coupling capacitor out.
31	SOUT	O	Surround channel trimmer output.
32	SMRI	I	Surround channel amp (front L,R mix) input.
33	SMRO	O	Surround channel amp (front L,R mix) output.
34	CMC	O	Center mode control.
35	SD	O	Selector #2 output (to surround channel delay).
36	SIMB	I	Selector #2 input B (L-R).
37	SIMA	I	Selector #2 input A (L+R).
38	L+R	O	L+R channel output.
39	L-R	O	L-R channel output.
40	GND	–	Ground.
41	VREF	I	VREF in.
42	VREFG	O	Vref out.
43	IREF	I	Iref in.

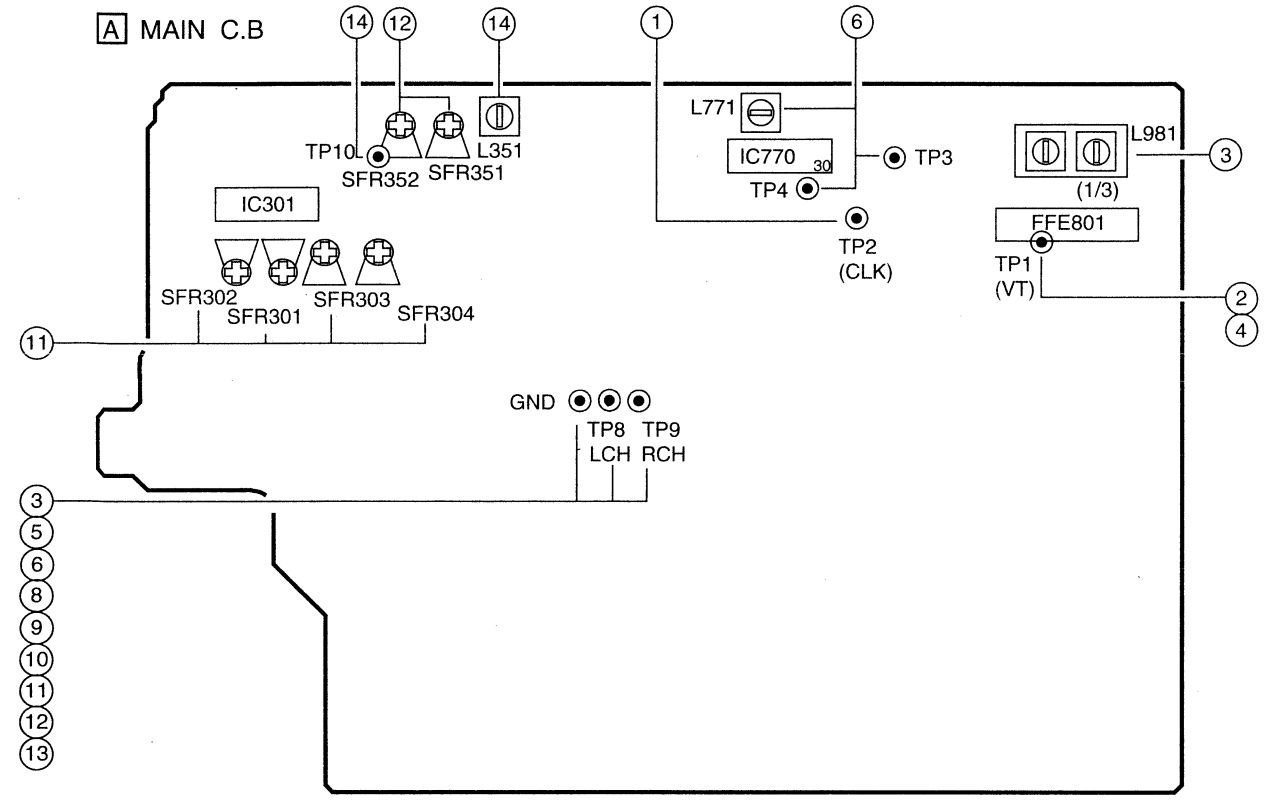
44	DBIN	I	To modify B NR decoder input.
45	LPIN	I	From surround channel delay input.
46~48	DBC 1~3	I	Dolby B NR control 1~3.
49	NC	–	Not used.
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	–	Not used.

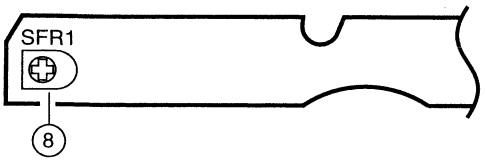
IC BLOCK DIAGRAM – 2

IC, BU9262AFS

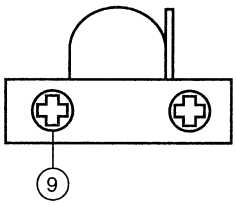


ADJUSTMENT - 1 <TUNER / DECK>





DECK–1 P, DECK–2 R / P



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK IC770 pin30)
   Method : Set to MW 1710kHz, and check that the test point is 2160kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1710kHz, 530kHz and check that the test point is less than 7.0V(1710kHz), more that 0.6V (530kHz).

3. MW Tracking Adjustment
   Settings : • Test point : TP8, TP9
   • Adjustment location : L981(1/3)
   Method : Set to MW 1000kHz and adjust L981 so that the test point becomes maximum.

4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.0V (87.5MHz) and less than 8.0V (108.0MHz).

5. FM Tracking Check
   Settings : • Test point : TP8, TP9
   Method : • Set to FM 98.0MHz and check that the test point is 3dB ± 6dB.

6. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   : TP8, TP9 (Distortion)
   • Adjustment location : L771
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

7. Auto Stop Level Check

MW
- Input level : Variable

Method : Check auto stop at MW 1000kHz and the level is 50dB ± 10dB.

FM
- Input level : Variable

Method : Check auto stop at FM 98.0MHz and the level is 20dB +10/-5dB.

< DECK SECTION >

8. Tape Speed Adjustment

Settings :
- Test tape : TTA–410
- Test point : TP8, TP9
- Adjustment location : SFR1

Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

9 Head Azimuth Adjustment

Settings :
- Test tape : TTA–410
- Test point : TP8, TP9
- Adjustment location : Head azimuth adjustment screw

Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum.

10. PB Frequency Response Check (DECK 1, DECK 2)

Settings :
- Test tape : TTA–410
- Test point : TP8, TP9

Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is ±3dB. Lch and Rch difference level of 10kHz is less than 2.0dB.

11. PB Sensitivity Adjustment (DECK 1, DECK 2)

Settings :
- Test tape : TTA–200
- Test point : TP8, TP9
- Adjustment location : SFR301 (DECK 1, Lch)
  SFR302 (DECK 1, Rch)
  SFR303 (DECK 2, Lch)
  SFR304 (DECK 2, Rch)

Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

12. REC/PB Frequency Response Adjustment

Settings :
- Test tape : TTA–602
- Test point : TP8, TP9
- Input signal : 1kHz / 8kHz (LINE IN)
- Adjustment location : SFR351 (Lch)
  SFR352 (Rch)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes 18mV ± 0.5dB with respect to that of the 1kHz signal.

13. REC/PB Sensitivity Check

Settings :
- Test tape : TTA–602
- Test point : TP8, TP9
- Input signal : 1kHz (LINE IN)

Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz signals and check that the output is 18mV ± 2.5dB.

14. Bias OSC Frequency Adjustment

Settings :
- Test tape : TTA–615
- Test point : TP10
- Adjustment location : L351

Method : Set to the REC mode. Adjust L351 so that the frequency at the test point is 85kHz ± 1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	Less than 10dB [at 87.5MHz]
(THD 3%)	Less than 9dB [at 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 36dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	Mono : More than 72dB Stereo : More than 66dB [at 98.0MHz]
Distortion :	Less than 1.2% [at 98.0MHz]
Auto stop level :	20dB +10/-5dB [at 98.0MHz]
Stereo separation :	More than 25dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

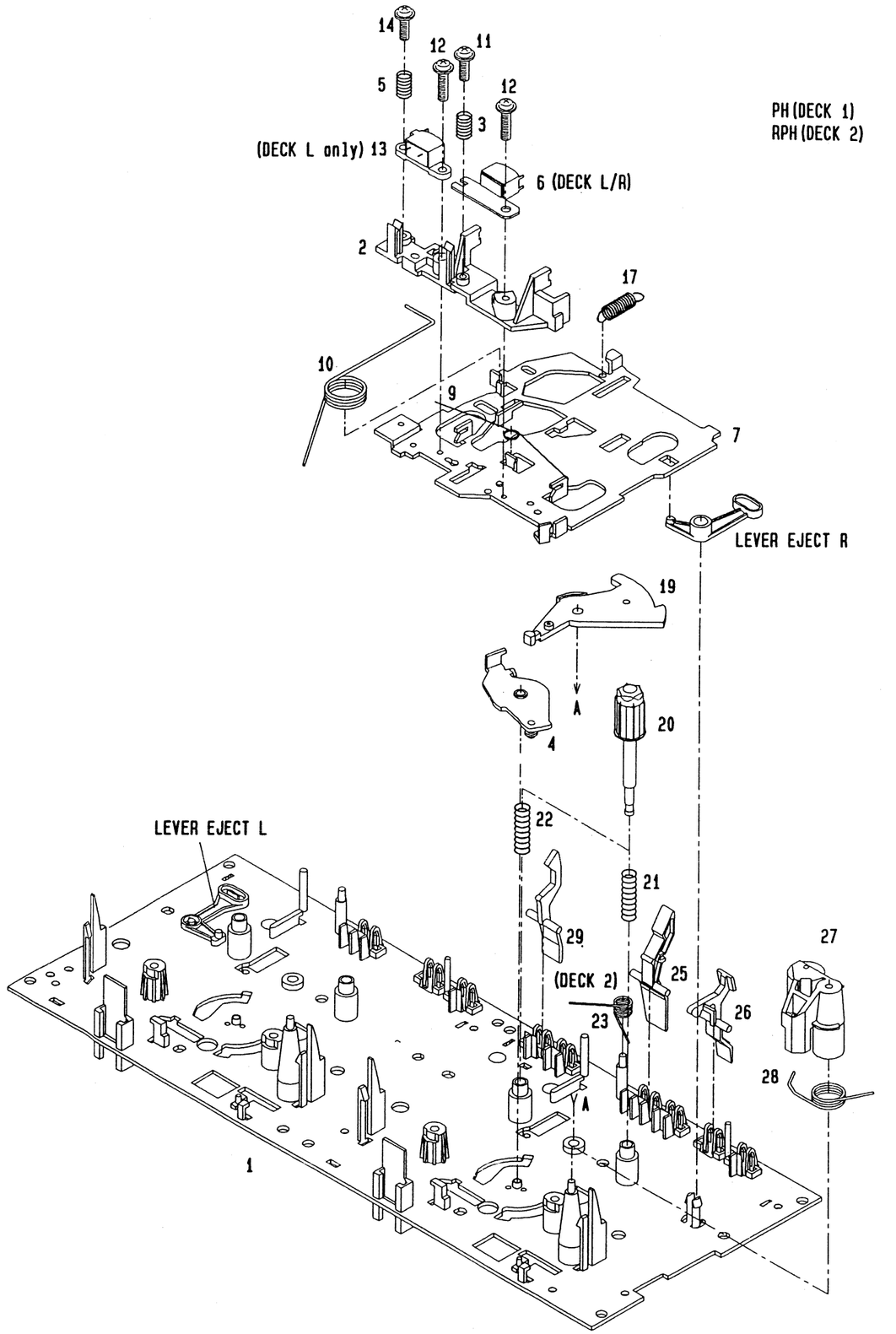
<AM(MW) SECTION>

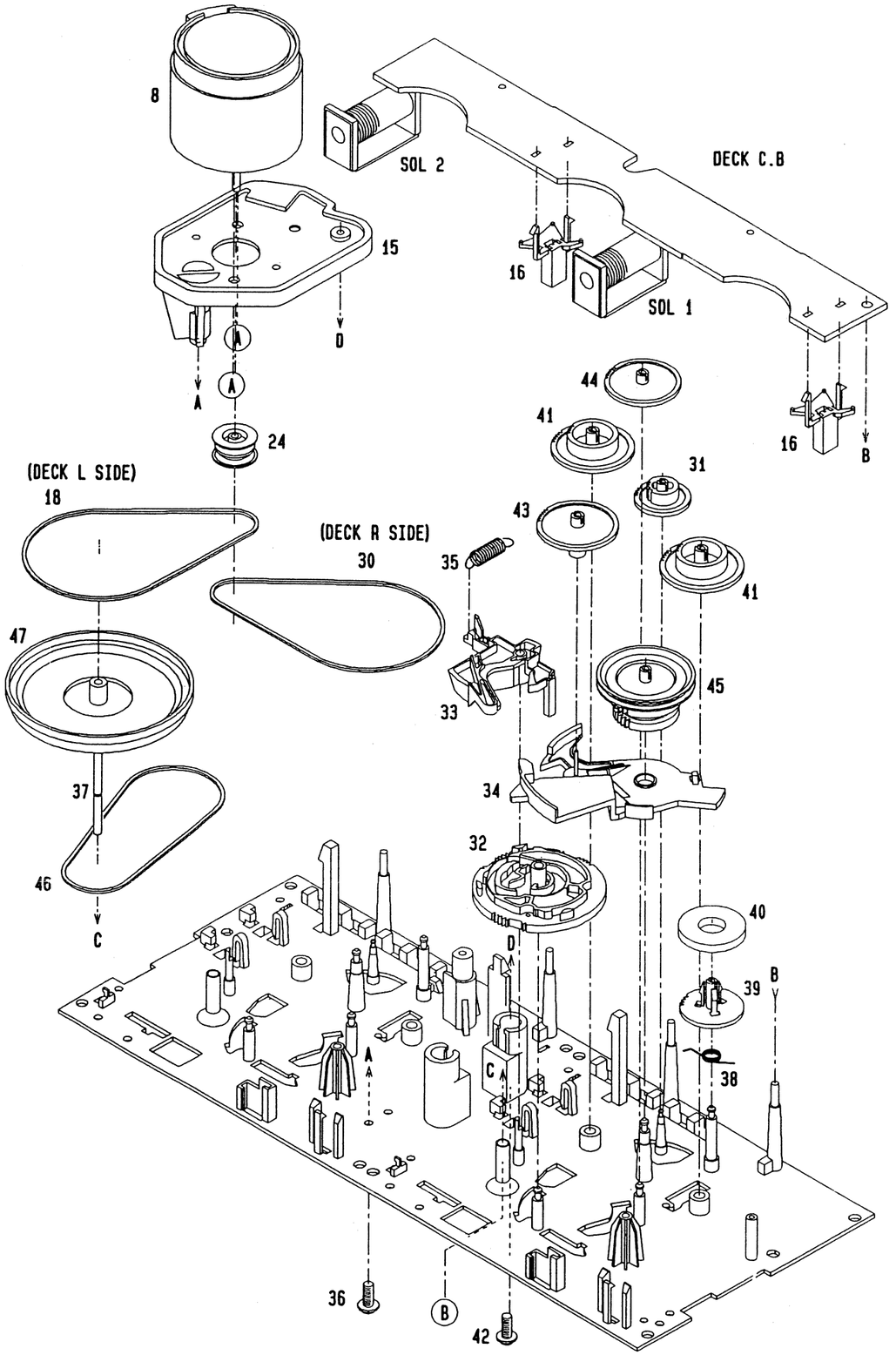
Sensitivity : (S/N 20 dB)	Less than 60dB [at 600kHz] Less than 58dB [at 1000kHz] Less than 58dB [at 1400kHz]
Signal to noise ratio :	More than 36dB [at 1000kHz]
Distortion :	Less than1.5% [at 1000kHz]
Auto stop level :	Less than 60dB [at 1000kHz]
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.25% (W.R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	2.8V ± 2dB (SP OUT 2V)
REC/PB output level :	1.0V ± 2dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM)
Noise level (PB) :	Less than 18mV (NORM, DOLBY OFF SP OUT 2V)
Noise level (REC/PB) :	Less than 20mV (NORM, DOLBY OFF SP OUT 2V)
Crosstalk :	More than 50dB (1kHz, 0VU)
Channel separation :	More than 30dB (1kHz, 0VU)
Erasing ratio :	More than 60dB (at 125Hz, 10VU)
Test tape :	TTA–602 (NORMAL)

TAPE MECHANISM EXPLODED VIEW 1 / 1



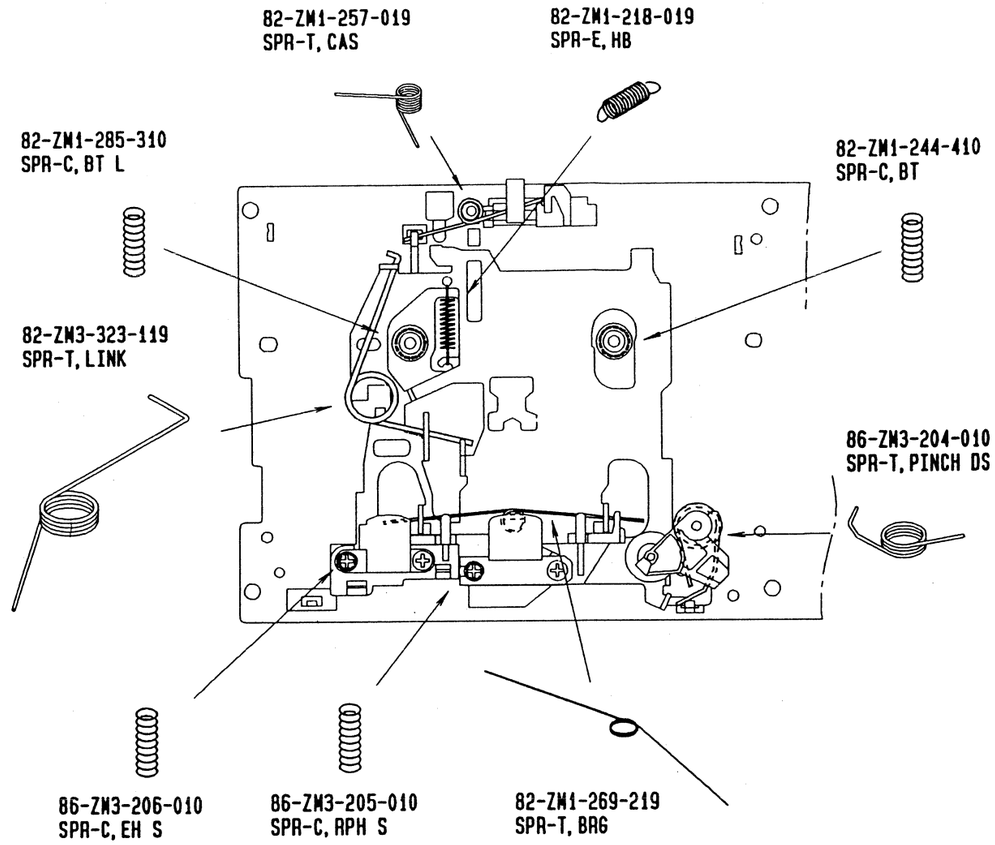


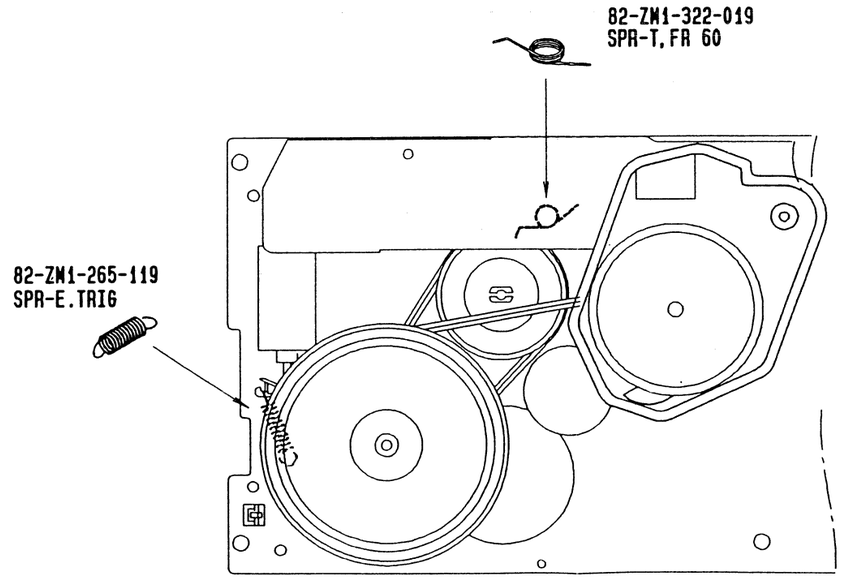
TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

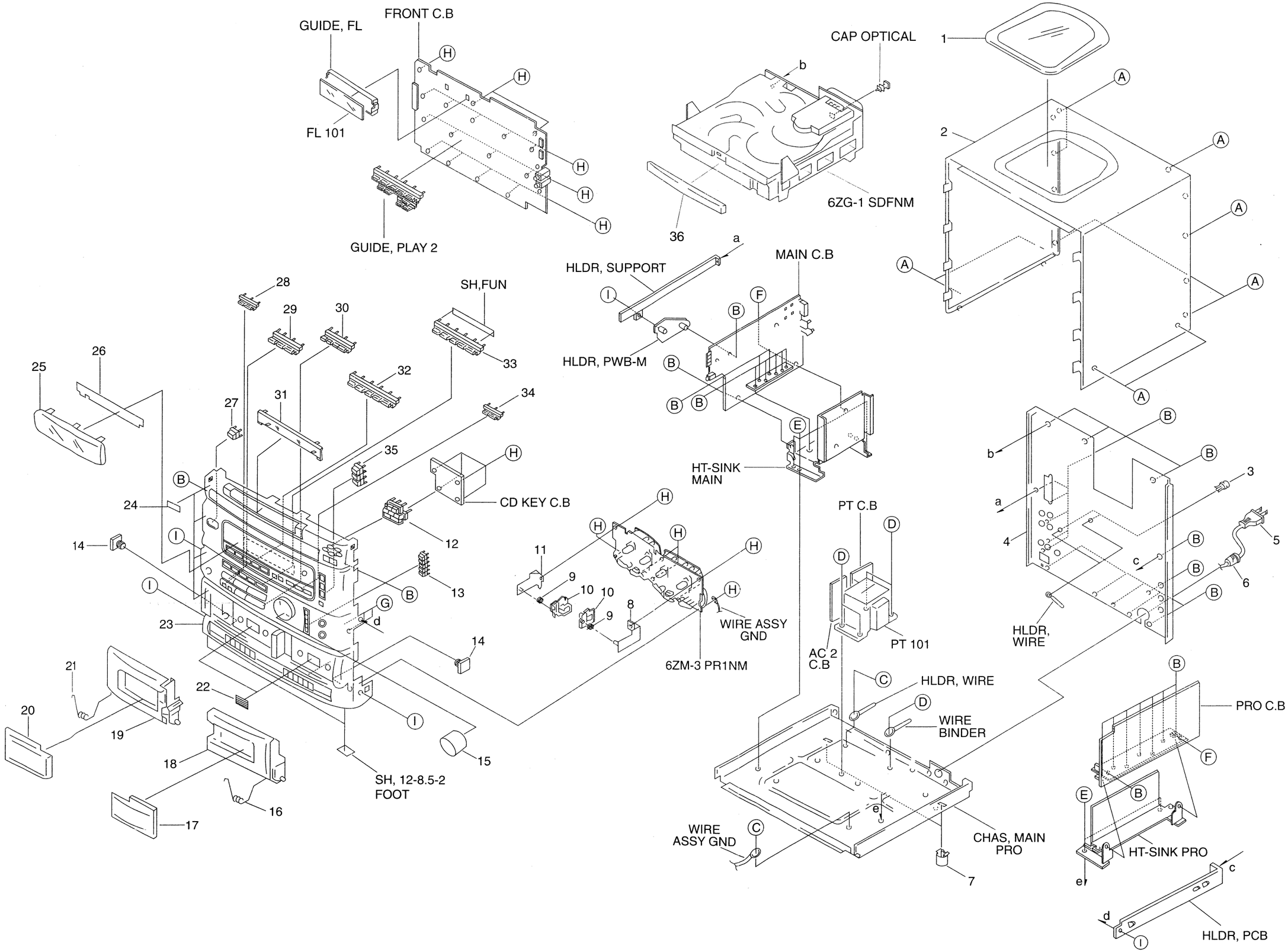
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-212-010		CHAS ASSY,SS
2	86-ZM3-202-010		BASE,HEAD S
3	86-ZM3-205-010		SPR-C,RPH S
4	82-ZM1-333-210		PLATE,LINK 2
5	86-ZM3-206-010		SPR-C,EH S
6	87-A90-403-019		HEAD,RPH MS15R
7	86-ZM3-201-010		CHAS,HEAD S
8	87-045-347-019		MOT,SHU2L 70(M1)
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM3-323-119		SPR-T,LINK
11	86-ZM3-209-010		S-SCREW,ASIMUTHS
12	86-ZM3-207-010		S-SCREW,RPH
13	87-A90-404-019		HEAD,EH LE15B
14	86-ZM3-208-010		S-SCREW,EH
15	86-ZM3-203-010		HLDR,MOTS
16	82-ZM1-245-210		HLDR,IC
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM3-329-210		BELT,SBU R2
19	82-ZM1-222-219		LVR,PLAY
20	82-ZM1-217-419		REEL TABLE
21	82-ZM1-244-519		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM3-221-010		PULLEY,MOT 2M
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-119		LVR ASSY,PINCH
28	86-ZM3-204-010		SPR-T,PINCHDS
29	82-ZM1-240-119		LVR,REC (DECK 2)
30	82-ZM3-328-110		BELT,SBU P2
31	82-ZM1-223-010		GEAR,PLAY
32	82-ZM3-305-019		GEAR,CAM M2
33	82-ZM1-227-319		LVR,TRIG
34	82-ZM3-306-110		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	85-ZM3-203-019		S-SCREW MOTOR M3
37	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-319		GEAR,REEL
42	85-ZM3-213-010		S-SCREW,HLDR,MOT 3
43	82-ZM1-225-219		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-210		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-019		FLY-WHL RW (DECK L)
47	82-ZM3-331-019		FLY-WHL R2W (DECK R)
A	87-251-071-417		U+2.6-4
B	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT

SPRING APPLICATION POSITION





MECHANICAL EXPLODED VIEW



MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

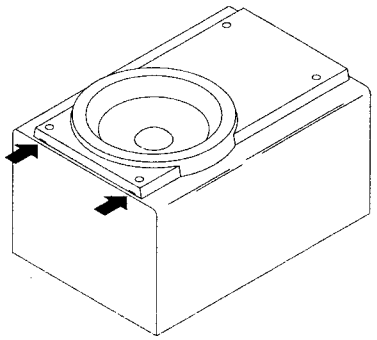
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MAT-009-010		WINDOW,TOP(U)
2	87-MA5-027-010		CABI,STEEL
3	87-084-077-010		RIVET, NYL3.5-4.5
4	87-MAT-008-010		PANEL,REAR USTNM
⚠ 5	87-050-053-010		AC CORD ASSY,U-2
6	87-085-189-010		BUSHING,AC CORD(U) CM-22C
7	87-MA3-062-010		FOOT, H17
8	87-NF4-217-010		HLDR,LOCK 2
9	82-NF5-228-010		SPR-C,LOCK
10	82-NF5-229-010		PLATE,LOCK(*)
11	87-NF4-216-010		HLDR,LOCK 1
12	87-MA5-011-010		KEY,DIRECT
13	87-MA6-005-010		KEY,T-BASS
14	87-063-165-010		OIL-DMPR,150
15	87-MA3-027-010		KNOB,RTRY MAIN
16	82-NF5-219-010		SPR-T,EJECT 2(SIN)
17	87-MA5-026-010		WINDOW,CASS R
18	87-MA6-019-110		BOX,CASS R(6)
19	87-MA6-018-110		BOX,CASS L(6)
20	87-MA5-025-010		WINDOW,CASS L
21	82-NF5-218-010		SPR-T,EJECT 1(SIN)
22	81-532-080-010		LBL,CASS-COMPT
23	87-MAT-004-010		CABI,FR U
24	82-NE8-032-010		BADGE,AIWA 27.5 ABS GLD
25	87-MAS-012-010		WINDOW,AMP (PRO)
26	87-MA5-007-010		PLATE,GEQ (PRO)
27	87-MA5-012-010		KEY,POWER
28	87-MA6-008-010		KEY,DUB
29	87-MA6-014-010		KEY,ASSY PLAY(6)
30	87-MA6-016-010		KEY,ASSY FF(6)
31	87-MA5-023-010		WINDOW,CD
32	87-MA5-014-010		KEY,GEQ
33	87-MA5-015-010		KEY,FUN
34	87-MAS-008-010		KEY,PRO (VF) MAS-08
35	87-MA5-013-010		KEY,DSP
36	87-MA5-009-010		PANEL,TRAY
A	87-067-641-010		UTT2+3-8 W/O SLOT BLK
B	87-067-703-010		BVT2+3-10 W/O SLOT
C	87-067-688-010		BVTT+3-6
D	87-067-975-010		S-SCREW,IT+4-8 SWCH12A
E	87-067-579-010		BVT2+3-8 W/O SLOT
F	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
G	81-MK1-210-010		S-SCREW,BFT2+3-16
H	87-078-060-010		BVIT3B+3-10
I	87-591-095-410		QIT+3-8

SPEAKER DISASSEMBLY INSTRUCTIONS

Type.1

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

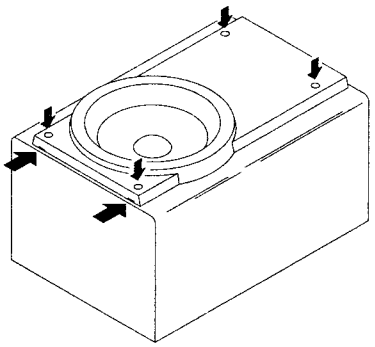
Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. remove the screws of each speaker unit and then remove the speaker units.



Type.2

グリルフレームを外し、4個のゴムキャプをマイナスドライバーで端の方から持ち上げて外すと中にビスが有りますので、ビスを取り外します。矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットのビスを取り、スピーカーユニットを外してください。

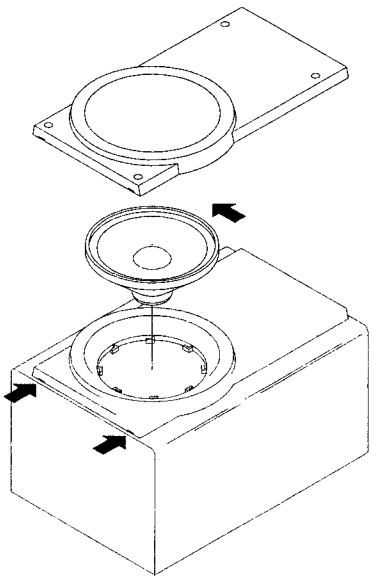
Remove the grill frame and four pieces fo rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



Type.3

矢印の位置にマイナスドライバーを差し込んで、パネルを外します。各々のスピーカーユニットの凹にマイナスドライバーを差し込んで、反時計方向に回転させスピーカーユニットを外してください。スピーカーユニット交換後は時計方向にクリック音がするまで、回転させて取り付けます。

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



SPEAKER PARTS LIST
SX-ZR660 <YU>

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MSP-001-010		PANEL,FR R
2	87-MSP-002-010		PANEL,FR L
3	87-MSP-011-010		GRILLE,FRAME ASSY
4	87-MSP-008-010		HLDR,TW
5	87-MSS-001-010		PANEL,TW R
6	87-MSS-002-010		PANEL,TW L
7	87-MST-601-010		SPKR,W 200
8	84-VS3-603-010		SPKR,T 60
9	87-MSP-606-010		SPKR,CORD

SPEAKER PARTS LIST
SX-C550 <YU>

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSY-014-010		SPEAKER CORD PIN
2	85-NSY-001-010		PANEL,FR
3	85-NSY-010-010		GRILLE,FRAME ASSY
4	85-NSY-606-010		SPEAKER
5	83-NSM-010-010		SPEAKER CORD

SPEAKER PARTS LIST
SX-R240 <YB,YJB,YUB,YUST,YJST,YST,YUAST>

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NSV-001-010		PANEL,FR<YB,YJB,YUB>
1	86-NSX-009-010		PANEL FR ST<YUST,YJST,YST,YUAST>
2	85-NSX-005-010		GRILLE,FRAME ASSY<EXCEPT YUAST>
2	85-NSX-015-010		GRILLE,FRAME ASSY B<YUAST>
3	85-NSL-601-010		SPEAKER
4	81-VSA-010-010		SPEAKER CORD

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-MAT-903-010		IB,U(ESF)M
2	87-MAT-701-010		RC UNIT,7AS02
3	87-006-225-010		ANT,LOOP ANT NC2
4	87-043-115-010		FEEDER-ANT,FM

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G— —	
G— —	
G— —	

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